1999 HOSFELT electronics, inc.

Est. 1969

Index Page 5

PHOTON II
Micro-Light II

1-5/8" x 1" x 1/4"
Visible for more than a mile!
Personal flashlight that is nearly indestructible.
Micro size - same size & weight as a quarter.
Replaceable ten year lithium battery.
Squeeze momentary switch or on/off slide switch.

Red Excellent for preserving night vision. Penetrates the furthest through any particulate matter suspended in the air such as dust, smoke and water vapor.

Orange Brighter in it's center than red or the yellow. Unique flashlight.

Yellow Great penetration and visibility. Good flashlight style beam.

Red, Orange and **Yellow** are powered by one CR2032 lithium battery. 5 full days - 124 hours continuous on.

Green Longest lasting for battery efficiency 7 days continuous on. Narrow angle beam projects far away. Powered by one CR2032 lithium battery.

Blue Tremendously bright and excellent for walking around. Wide angle illuminates everything to the side as well as forward.

Turquoise A BRILLIANT greenish blue. This unique color is radiant and uncommon.

White Best for all around use as everything you look at is viewed as true color. Wide angle beam is good for peripheral viewing.

Blue, Turquoise and **White** are powered by two CR2016 lithium batteries. 12 hours continuous on and over 24 hours with normal pulse use.

25-292 ... Red
25-291 ... Yellow
$10.95

25-333 ... Green
25-332 ... Blue
25-331 ... White
25-354 ... Orange
25-355 ... Turquoise
$14.95

All with Key Rings!

New

SURGE SUPRESSOR POWER CENTER

Mfg. - UNITED STATIONERS
13" x 12" x 2"

- Full surge protection
- Illuminated master on/off switch
- 5 individual lighted control switches
- Resettable circuit breaker, 15 amp
- 6ft power cord (120 VAC)

71620..... **$14.95**

Order Form Page 164

ORDER TOLL FREE
800-524-6464

TOLL FREE FAX
800-524-5414

LOCAL PHONE
740-264-6464

DUAL HEAT SOLDERING STATION

Switchable 20/40 watt temperatures. Features: on/off power switch and illuminated power light, cushion grip handle, heat-dissipating coil, heavy non-slip base and natural sponge tip cleaning pad.

54-235.....**$19.99**
54-239.....Spare replacement tip.....**$1.99**

WIRE STRIPPER

Mfg. - CALTERM
Heavy duty wire stripper with preset indexes for wire size 22 to 8 AWG. Spring action for fast shipping along with air cushion grips. Display boxed.

54-234.....**$9.99**

5" DIAGONAL FLUSH CUTTER

Mfg. - UTICA
Mfg.# - U150E
Hard alloy forged steel for maximum tool life. Precision machined and lapped joints for perfect jaw alignment with black antiglare finish. Soft touch double stainless leaf springs for smooth quick return. Green cushion grip with yellow strip for easy grip.

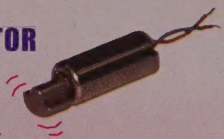
54-195.....**$6.95**

AT&T MICROCASSETTE TAPE

Mfg. - AT&T
Mfg.# - MC-30
30 minute standard microcassette for hand held recorder, dictation machines, etc.

MC-30.....**$ .99 ea**.....10 for **$7.95**

VIBRATING PAGER MOTOR



Non centric motor.
The off center weight on shaft causes vibration.

1.3 VDC @ 74 mA
35-152.....1/4" dia x 13/16" (L).....**$3.95**

1.3 VDC @ 93 mA
35-153.....3/16" dia x 15/16" (L).....**$3.95**

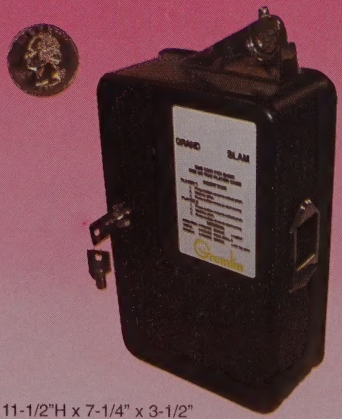
1.3 VDC @ 95 mA
35-155.....17/64" dia x 7/8" (L).....**$3.95**

RECHARGEABLE PORTABLE POWER SYSTEM

Mfg. - WAGEN
Mfg.# - 9624
8-1/4" x 5-3/4" x 3"
11 lbs
Input: 12 VDC
(120 VAC recharging)
Output: 12V, 10A, 120W via dual lighter sockets and dual binding posts. Portable power for lights, fans, cellular phones and more. Features on/off switch with diagnostic LED power level indicator. Includes built-in shoulder strap, AC adapter, lighter cord adapter and two 4ft 10 AWG wires for battery charging or starting with battery clip on one end and open end connector on the other.

40-201.....**$59.95**

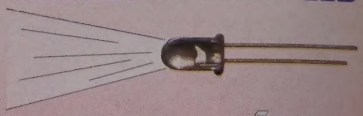
COIN BOX WITH QUARTER COIN MECH AND COUNTER



11-1/2"H x 7-1/4" x 3-1/2"
Standard door, complete black metal assembly. Round security key lock with two keys. Metal top coin feed holder and reject button. Coin return cup. Coin reservoir. SPDT coin switch. 6 digit non-resettable counter. All units keyed differently.

14-448.....**$24.95**

BRIGHT WHITE LED



5mm T1-3/4
3.6 - 4 VDC @ 20mA
Full spectrum white
Wide angle beam
2000 mcd typical luminosity

25-353.....**$3.99**

RECEPTACLE TESTER

3-prong circuit analyzer detects improper wire connections in 3-wire 125VAC circuits.

Test for open ground, reverse polarity, open hot, open neutral, hot and ground reversed, hot or neutral with open hot.

Features super-bright indicator lights, convenient "push-pull" shape and is safety yellow.

This unit is a must for computer installers where proper ground is vital!

71200.....**$1.99**

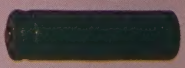
MOTION DETECTOR

With Audible Alert

Mfg. - TELKO
4-1/2" x 2-1/2" x 1-1/2"
115 VAC - Plugs directly into any AC wall outlet. Infrared motion sensor. 120dB alarm siren or chime activation. Provides 30ft x 90° range. ON-OFF switch.

80-286.....**$14.95**

RECHARGEABLE "AA" NICKEL METAL HYDRIDE BATTERY



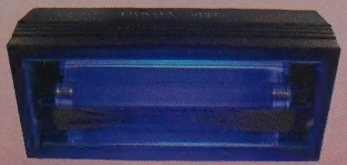
1.2 VDC 1200mAh
Fast charge capability

NO CADMIUM, MERCURY OR LEAD
NO MEMORY EFFECT

Charging: Standard: 120mA for 16 hrs
Fast: 1200mA for 1 hr

	(1-9)	*(10-99)*	*(100-499)*	*(500-Up)*
33-149.....	**$2.99**	**$2.79**	**$2.65**	**$2.50**

BLACK LIGHT



7" x 3-1/8" x 2-5/16"
Black light detects watermarks and counterfeiting. Causes white surfaces to glow and dark surfaces to become visible. Detect hidden damages in glass, porcelains, paintings, pottery and china. Light sees through the surface and will reveal hidden repairs, cracks, glue, imperfections, composition changes and other irregularities. (F4T5 bulb) housed in a dark brown plastic enclosure. Auto turn off after 50 seconds. Powered by a 12 VDC @ 500mA AC adapter (included).

10-113.....**$8.95**

REPLACEMENT BULB
10-114.....F4T5.....**$2.49**

EXTENSION SPEAKER

3-1/4" x 2-3/4" x 2-1/2"
8 ohm .5 watt
Bone plastic case with bone metal grill. 3-1/2ft cord with a 1/8" mono plug.

13-376.....**$ .99**

3-1/2 DIGIT LCD MULTIMETER

5"(L) x 2-3/4"(W) x 1"(H)
Diode test and hFE test. 3-1/2 digit, 7 segment, .5" high LCD. Maximum common mode voltage 500V peak, better than 1% accuracy. Safety yellow compact case has a single rotary knob. Supplied with removable color coded test leads, 9V battery and manual.

DC voltage:
200mV, 2000mV, 20V, 200V, 1000V
DC current:
200µA, 2000µA, 20mA, 2000mA, 10A
AC voltage:
200V, 750V
Resistance:
200W, 2000W, 20K, 200K, 2000K

9202.....**$12.95**

PERSONAL COMMUNICATOR

No FCC License Required!
No Test, No Fee - Just Use It!

FreeTalk

KENWOOD

Mfg. - KENWOOD
Mfg.# - UBZ-LF14
(300mW)
462.5625 ~ 467.7125 MHz
4" x 2-3/8" x 1-1/8"

- *14 Channels*
- *38 Talk Groups (CTCSS)*
- *Scramble Mode*
- *38 Hours Operation*
- *Four Call Tones*
- *Easy Key Functions*
- *Compact & Lightweight*
- *Liquid Crystal Display*

Short range (up to 2 miles) 2-way radio band for "Free Talk" communications without the need for a license, radio knowledge or monthly charges. ***AUTO SQUELCH*** quiets your transceiver when not receiving calls, ***TONE SQUELCH*** ("CTCSS") keeps your transceiver quiet except for the calls you want to hear and a ***SCRAMBLER*** keeps your conversations private. Mic and ear jack. 2 position antenna swivels down behind radio while not in use. Replaceable two position belt clip. Requires 3 "AA" batteries. Accessories sold below.

19-139.....**YELLOW**.....**$99.95**
19-140.....**BLACK**.....**$99.95**

Speaker/Microphone

NEW

Mfg. - KENWOOD
Features volume control, lock switch, PTT switch, earphone jack and three function keys. Water resistant.
Speaker: 8 ohm, 1 watt, 83 dB
Mic: -58dB sensitivity, 2K ohm impedance

SMC-34.....**$37.95**

Headset with VOX/PTT

NEW

Mfg. - KENWOOD
Adjustable headband with single earphone and boom mic. Features sensitivity control and "push to talk" switch.

HMC-3.....**$54.95**

12 VDC @ 2.1 AMP LOW PROFILE REGULATED POWER SUPPLY

Mfg. - ITE
4-1/8" x 1-5/8" x 7/8", 4.6 oz
Input: 100-240 VAC, 50-60 Hz
Output: 12 VDC @ 2.1 amp, 25 watt continuous. The enclosure and 6ft input & 2ft output cords black. Coaxial jack: OD - .215", ID - .098". Center is positive for polarity. 2% line regulation. Regulated, filtered & fused. Compact and extremely lightweight. Ideal for notebook computers and other small systems.

56-770.....**$19.95**

WLC100 VARIABLE OUTPUT SOLDERING STATION

Weller®

Variable power control from 5 to 40 watts. Features: illuminated on/off switch, lightweight 40 watt pencil iron which includes the ST3 interchangeable tip and a cushioned foam grip handle, heating element, safety guard iron holder, and natural sponge tip cleaning pad.

WLC100.....**$36.75**

REPLACEMENT TIPS

ST1.....1/16" Screwdriver tip.....**$3.99**
ST3.....1/8" Screwdriver tip.....**$3.99**
ST5.....1/32" Single flat tip.....**$3.99**
ST6.....1/32" Screwdriver tip.....**$3.99**
ST7.....1/32" Conical tip.....**$3.99**
ST8.....1/16" Narrow SD tip.....**$3.99**

REPLACEMENT HEATING ELEMENT

WLC101.....**$9.95**

REPLACEMENT SPONGE

WCC104.....**$ .89**

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VISA MasterCard DISCOVER NOVUS

HANDHELD LCD OSCILLOSCOPE

NEW

DMM, oscilloscope & generator all in one!

9 x 5-1/8" x 1-11/16"
- Screen hold function
- Waveform memory
- True-rms or peak to peak readout
- Full DMM features
- RS-232 data output to computer
- Full auto set-up function
- Trigger mode: normal, auto or single
- Built in sine/square wave generator
- Input bandwidth: 500 kHz
- Input impedance: 1 MOhm // 20 pF
- Maximum input voltage: 100Vp (AC+DC) 600 Vp with x10 probe
- Input: coupling: DC, AC and GND
- LCD: 64 x 128 pixels (64 x 96 pixels for signal)
- dB range: from -74 to +40 dB (±0.5dB) 0 dB = .775V
- True rms range (Ac only): .1 mV to 80 V (2.5%)
- Peak to Peak and DC range: .1 mV to 180 V (2%)
- Sine wave output: ±400 Hz / 0 to 1 Vrms @ 10k Ohm

Includes holster, battery pack and charger.

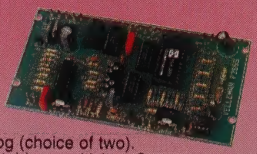
HHS-5.....**$234.95**

ELECTRONIC WATCHDOG

NEW

velleman·kit

104pc Kit



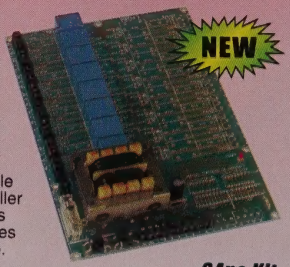
5-5/8"(L) x 2-7/8"(W)
Produces a natural sounding barking dog (choice of two). Reacts to surrounding noise with adjustable sensitivity. Can connect to other trigger devices. 4 ohm 2 watt speaker output (speaker not included). Runs on 9-12 VDC @ 500 mA. Requires assembly and basic electronic knowledge. Difficulty level - *BEGINNER.*

K2655.....**$35.49**

UNIVERSAL RELAY CARD KIT

NEW

velleman·kit



8-5/16"(L) x 5-7/8"(W)
Relay contact: 5A/220V
Output voltage: 12 VDC/250mA
Power supply: 115/200 VAC/12vA
Switch large electronic currents while providing insulation between controller and the controlled devices. 8 relays included (extendable to 16). Requires assembly and electronic knowledge. Difficulty level - *EXPERT.*

64pc Kit

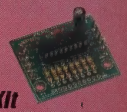
K6714.....**$53.75**

2-WIRE, 8 CHANNEL COMMUNICATION TRANSMITTER AND RECEIVER

NEW

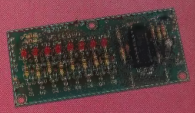
Allows you to open or close up to 8 different contacts. Tested to a distance of 164 ft. Two wire communication hook-up. For use in model building, model trains, or wherever you want to establish several connections with two wires. Requires assembly and electronic knowledge. Difficulty level - *NOVICE.*

Transmitter
velleman·kit
1-11/16"(L) x 1-1/2"(W)
Power supply of the transmitter over the data line.



K6700.....**$12.95** ***18pc Kit***

Receiver
3-13/16"(L) x 1-13/16"(W)
Requires 6-16 VDC.
Open collector outputs
with LED indicator (max 200 mA). ***46pc Kit***



K6701.....**$19.95**

K6700 transmitter requires K6701 receiver.

INFRARED AND RF CODE LOCK TRANSMITTERS & RECEIVERS

NEW

Over 8000 selectable codes. Use for car alarms, garage doors, door locks, lighting control etc. Use several transmitters with one receiver. Receivers feature relay output 10 amp change over or pulse contact and require 12-16 VDC @ 100 mA. Transmitters require V23GA or GP23A battery. LED on/off and battery indication. Keyholder housing. Requires assembly and electronic knowledge. Difficulty level - *NOVICE.*

One Channel Infrared 23ft range

velleman·kit

Transmitter
1-3/8"(L) x 5/8"(W) x 2-5/16"(H) ***16pc Kit***

K6708.....**$15.95**

Receiver
3"(L) x 3-5/16"(W) x 1-3/16"(H)
LED on/off and reception strength indicator.

66pc Kit

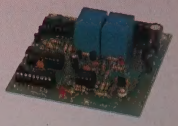
K6709.....**$29.95**

Two Channel RF Code lock 98ft range

Transmitter
1-3/8"(L) x 5/8"(W) x 2-5/16"(H)

29pc Kit

K6706A.....**$14.95**



Receiver
3-3/8"(L) x 3-1/2"(W) ***75pc Kit***
10 amp toggle or momentary contact.
Separate output to switch on/off a car alarm.

K6727.....**$24.95**

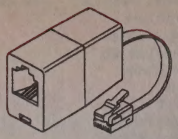
• INDEX •

Adapters 11, 136-141
Alligator Clips 84, 145
Audio Cables 100, 101
Audio Connectors 97, 98, 100
Banana Plugs 84, 85, 97
Bar Code Wand 114
Barrier Blocks 83
Batteries 34, 35
Battery Back-up Systems 149
Binding Posts 97
BNC 93, 94
Books 60, 70, 77, 79
Boxes 120-123
Bracket 158, 159
Breadboards 82
Bridge Rectifiers 61
Brushes 27
Bulbs 118
Buzzers 11
Cable:
BNC 100, 101
Coax 14, 95, 101
Computer 9, 10
Fiber Optic 6, 114
RCA 140, 145
Ribbon 9, 14
UHF 101
Cable Ties 87, 126
Caliper 18
Cameras 161, 162, 165-167
Capacitors 50, 54-59
Cases 7, 124
Category 5 16, 17
CATV Accessories 14, 95, 96, 101, 145
Chemicals 78, 79, 113
Circuit Breakers 75, 103
Coax 14, 95, 101
Computer Accessories 6-10
Connectors 90-99
Copper Clad Boards 110
Crimp Terminals 81, 88, 89
Crimp Tools 6, 23, 25, 88, 89, 92, 94
Crystals/Oscillators 65
Cutters 22, 26, 27
DC/DC Converters 144
DC Power Plugs 96
Decora 49, 98
Dental Pics 26
Desoldering 18, 20, 28, 29, 78
Dimmers 49
Diodes 63, 71
Displays 114, 115
Drill Bits 26
Enclosures 120-123
Eproms 65
European Barrier Blocks 83
Extension Cords 11, 12
Fans & Accessories 30-33
Ferrite Products 50, 86, 132
Feet 80, 87
Files 26
Filters (RFI/EMI) 51, 86
Fish Tape 153
Flashlights 28
Frequency Counter 155
Fuse Holders 75, 76
Fuses 74, 75
Glue 19
Grinding Stones 26
Ground Fault 145
Handles 76
Hardware 87
Headphones 7
Headers 86, 91
Heat Guns 29
Heat Shrinkable Tubing 29, 80
Heatsinks 51
Heatsink Compound 18, 19, 78
Helping Hands 110
Hemostats 26
Hex Key Set 27
Hook-up Wire 13
IC Sockets 86
IDC Connectors & Tool 6
Inductors 51
Infrared Modules 115
Insulator Kits 71
Integrated Circuits 66, 67, 73
Intercoms 106
Jumpers 83, 86
Keyboards 6
Kits 4, 107-109
Knives 23, 25, 111
K-type Bead Probe 145
Lamps
Desk 28
Replacement 118
Lan Cable Tester 131
Lasers 114, 156, 157
LCD Displays 114
LED'S 115-118
Lighter Cords 127
Linears 66
Line Conditioners 148
Line Cords 12
L-pads 103
Magnet Wire 15
Magnifiers 28
Married Cable 15
Meters
Multi 150, 152, 153
Panel 119
Mic Cords 86
Microphones 7, 105, 106
Monitors 160, 167
Motors 112
MOV'S 11, 65
Multimeters 150, 152-154
Nibbling Tool 25
Nicads 34, 35
Nuts & Screws 87
Optical devices 28
Optoisolators 61
Oscillators/Crystals 65
Oscilloscope & Probes 145, 151, 155
Panel Meters 119
PA Systems 106
PC Boards 110
Perf Boards 110, 123
Pliers 22, 25, 27
Photo Cell 113
Photo Etch 111
Piezo Buzzers & Sirens 104
Polarity Plugs 81
Potentiometers 50
Power Cords 11, 12
Power Inverters 133, 144, 163
Power Strips 148, 149
Power Supplies 134, 135, 142, 143, 146, 147, 154
Projector 167
Prototype Boards 110
Pumps 112
Punch Down Tools 23
Rack Mounts 121
Radio, Two-Way 3
Relays 11, 36-45
Remote Control 125
Resistors 50, 52, 53
Rubber Feet 80, 87
Scotchlok Connectors 89
Screwdrivers 24, 25, 163
Screws 87
SCR'S 64
Security Products 49, 159-162, 165-167
Semiconductors 62, 68-70
Signal Generator 151
Sirens 104
Sockets, IC & Sip 86
Soldering Accessories 18-21, 24
Solderless Terminals 88, 89
Sonalert 11, 104
Spacers 87
Speakers 7, 102-106
Speaker Wire 15
Step Up/Down Transformers 133
Surge Suppressors 148, 149
Surveillance Equipment 159-162, 165-167
Switches 46-49
Tape 80, 86
Telephone Accessories 16, 17, 128-131, 149, 163
Terminal Blocks 82, 83
Test Equipment 130, 131, 150-155
Test Leads 85, 145
Thermo Pads 71
Tone Test Kits 130
Tool Cases 124, 125
Tools 2, 22-29
Torch 29
Transducers 47
Transformers 132
Transistors 54, 62, 71-73
Triacs 62, 64, 73
Trim Pots 50
Tripod 159
TV Cable Accessories 14, 95, 96, 101, 145
UPS Systems 149
VCR 161
Velcro 80, 87
Videos, Educational Tapes 77
Vises 158
Voltage Converters 133
Voltage Regulator 60
Volume Controls 103
Wall Transformers 11, 136-141
Washers 87
Wire 13-16, 129
Wire Cutters & Strippers 2, 23, 25, 88
Wrist Straps 80, 145
Zener Diodes 63

MANUFACTURERS

AKRO-MILS CONTAINERS 121
AMP 92, 93
BOURNS POTS 50
BUD ENCLOSURES 124
CHEMTRONICS 78, 79
CIRCUITWORKS 19
CONTINENTAL RELAY 45
DATAK 111
EASYPOWER 20, 29
EDSYN 28
GOLDSTAR 154, 155
IDEAL 22, 131, 153
KESTER SOLDER 18
LEATHERMAN 23
LG PRECISION 154, 155
LITTELFUSE 75, 76
LMB HEEGER ENCLOSURES 121, 122
MAG LITE 28
MASTER APPLIANCE 29
MG CHEMICALS 113
MOLEX/WALDOM 89-91
MUELLER 84, 85
NADY 106
NTE
Relays 43, 44
Resistors 52
Semiconductors 68-73
Winboard/Windraft 70
PACTEC 120, 123
PANA VISE 158
PHOTON 1, 157
PORTASOL 20
PROGRESSIVE 130
PROLINK 145
PROTEK 147, 150, 151
SL WABER 148, 149
SPECTROL 50
3M PRODUCTS 80, 81
TRANS OHM 53
TECCOR 64
TRIPLETT 130, 153
TRIPP-LITE 146, 148
TYTON CABLE TIES 126
UCANDO 77
UNGAR 29
VELLEMAN 4, 107
WEIDMULLER - PALADIN 23
WELLER 20, 21
XCELITE 22, 24
XICON CAPACITORS 55

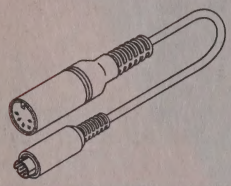
INTERNET LINESAVER



Allows multiple modem / fax / phone users to share a phone line without interruptions or disconnections caused by someone accessing the line while it is already in use.
- Protect valuable data and fax transmissions from interruptions.
- Perfect for internet users.
- Protects phone call privacy - prevents eavesdropping.
- Turns off your answering machine's message from any phone.

56-780.....**$8.95**

AT TYPE KEYBOARD ADAPTER CABLE



5 pin din female to 6 pin mini din male
Connects AT type keyboards to the PS/2.

20-131.....7" long.....**$1.95**

FIBER OPTIC NETWORK CABLE

Made with Siecor cable and connectors. 5 year Mfg warranty on all fiber cable assemblies.

ST/ST Duplex FIBER OPTIC Jumper Cables

20-204.....3ft.....**$32.95**
20-205.....6ft.....**$34.95**
20-206.....10ft.....**$36.95**

FDDI/FDDI FIBER OPTIC Jumper Cables

20-207.....3ft.....**$94.95**
20-208.....6ft.....**$96.95**
20-209.....10ft.....**$98.95**

FDDI/ST FIBER OPTIC Jumper Cables

20-210.....3ft.....**$59.95**
20-211.....6ft.....**$64.95**
20-212.....10ft.....**$66.95**

FDDI/SC FIBER OPTIC Jumper Cables

20-213.....6ft.....**$79.95**

SC/SC Duplex FIBER OPTIC Jumper Cables

20-214.....3ft.....**$46.95**

ST/SC FIBER OPTIC Jumper Cables

20-215.....3ft.....**$42.95**

CD ROM AUDIO/INTERFACE CABLES

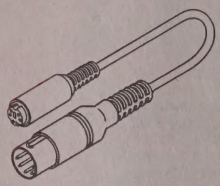
20-190	Panasonic to Sound Blaster	**$1.49**
20-192	NEC to Sound Blaster Pro	**1.49**
20-222	IDE 4X - 16X to Sound Blaster	**1.49**
20-223	IDE 4X - 16X to Interface	**1.49**

UNIVERSAL CD-ROM CABLE

Compatible with most CD-ROM drives and sound cards. One end has a standard CD-ROM audio connector and the other end has connectors for the most popular sound cards (Panasonic, Mitsumi, Sony & MPC-2).

20-224.....**$6.95**

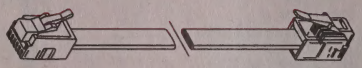
PS/2 TYPE KEYBOARD ADAPTER CABLE



6 pin mini din female to 5 pin din male
Connects PS/2 type keyboards to the AT.

20-134.....7-1/2" long.....**$1.95**

MODULAR DATA CABLES



Straight wired (parallel) for data applications: networking/printer sharing.

RJ11 - 6 position, 4 wire

20-154.....7 ft.....**$ .75**
20-149.....25 ft.....**$1.25**

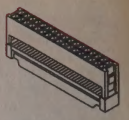
RJ11 - 6 position, 6 wire

20-150.....7 ft.....**$ .99**
20-151.....25 ft.....**$1.25**

RJ45 - 8 position, 8 wire

20-152.....7 ft.....**$1.25**
20-153.....25 ft.....**$2.49**

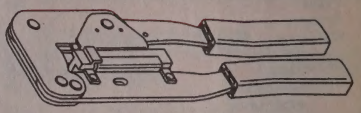
IDS SOCKET CONNECTORS



PC board edge connectors
IDC flat cable
Strain relief
Gold plated

21-357	20 IDC socket connector, 2x10	**$ .45**
21-358	26 IDC socket connector, 2x13	**.50**
21-359	34 IDC socket connector, 2x17	**.50**
21-360	40 IDC socket connector, 2x20	**.55**
21-361	50 IDC socket connector, 2x25	**.65**

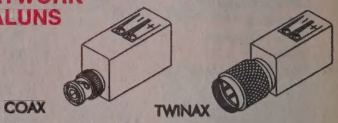
IDC CRIMP TOOL



9-1/2" IDC crimp tool. Suitable for IDC socket, D-Sub, Centronics flat-cable connectors. Hardened steel construction. Cushion-grip handles.

54-233.....**$14.49**

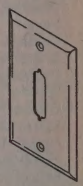
NETWORK BALUNS



Converts BNC coaxial cable to twisted pair wires with either a modular RJ-11 jack or 2 screw terminals.

20-116.....Coax balun.....**$4.95**
20-117.....Twinax balun.....**$9.95**

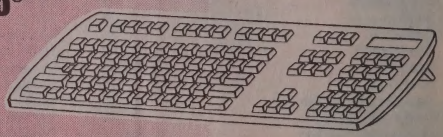
STEEL WALL PLATES



Fits standard duplex electrical box.

60-507.....DB9 Single.....**$1.49**
60-508.....DB25 Single.....**$1.49**
60-509.....BNC Single.....**$1.49**
60-510.....BNC Double.....**$1.49**
60-511.....Twinax Single.....**$1.49**

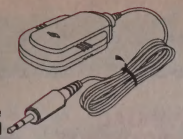
104 KEY WINDOWS 95® KEYBOARD



18" x 6-3/8" x 1-1/4"
5ft cable with PS/2 6 pin mini din connector. Designed for Windows 95®, but compatible with other systems. Dark gray case with light mauve color keys.

20-155.....**$4.95**

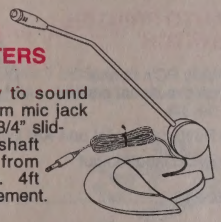
COMPUTER/ MULTIMEDIA MICROPHONE



Electret microphone with 7-1/2ft cord and 1/8" stereo phone plug.
Clip on back to attach to your collar or pocket. Drop-in mounting bracket with double side tape to attach to your monitor. Light gray.

13-400.....**$ .99**

DESKTOP MICROPHONE FOR COMPUTERS



Connects easily to sound card, voice modem mic jack (3.5mm plug). 9-3/4" sliding microphone shaft easily detaches from base for storage. 4ft cord for easy placement.

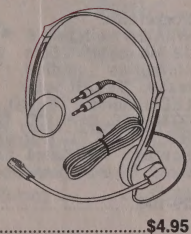
19-136.....**$4.49**

HI FI STEREO HEADPHONES

Mfg. - KOSS
Mfg.# - KX-3
Adjustable headband, padded earpiece and 3ft cord with 3.5mm (1/8") stereo plug.

20-156.....**$1.85**

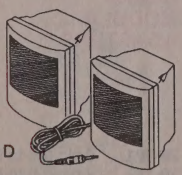
COMPUTER HEADSET/MICROPHONE



Mfg. - ANDREA
Mfg.# - M-150
Adjustable stereo headset with omni-directional microphone. Output via two 1/8" plugs. Headset & microphone are fully adjustable. Off white

20-157.....**$4.95**

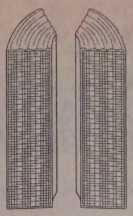
MULTI-MEDIA STEREO SPEAKER SYSTEM



3-3/4" W x 4-1/2" T x 3" D
8 ohm 1 watt
Freq response 100-12,000 Hz
3ft cord with 1/8" stereo plug.
Ideal for use use with "Walkman" type stereos, CD players or computer systems with stereo audio outputs.

13-322.....**$4.95**

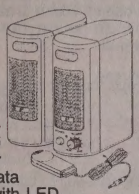
AMPLIFIED MULTIMEDIA SPEAKERS



Mfg. - PACKARD BELL
10-1/4" x 6-1/2" x 2-1/2"
55 watt P.M.P.O. (self amplified) Free standing or monitor mount. These ergonomically designed speakers deliver up-front stereo image sound. Volume control, treble/bass control and external headphone jack for private listening. Includes AC adapter. 4ft speaker cord with 1/8" stereo plug. Beige.

13-389.....**$14.95**

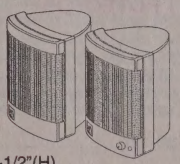
SHIELDED MULTIMEDIA SPEAKERS



Mfg.# - SS8039
7-1/4" x 2-7/8" x 4-5/8"
10 watt Hi-Fi speaker system. Magnetically shielded speakers reduce monitor interference and prevents data loss. On/off power button with LED indicator and volume control. Includes AC adapter and 4ft to source 1/8" stereo plug, 7ft to speaker cord with RCA stereo plug. Also includes omnidirectional electret microphone with 7ft cord with a 1/8" stereo jack. Includes a monitor hanging clip with double face tape for mounting. Beige.

13-378.....**$24.95**

AMPLIFIED MULTIMEDIA SPEAKER SYSTEM

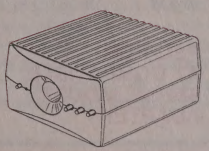


ADVENT

Mfg. - ADVENT, #AV22
5-1/2"(L) x 3-3/4"(W) x 3-1/2"(H)
20k ohm, 6 watts total. Frequency response: 100hz-20kHz. Built-in amplifiers in each speaker. Magnetically shielded drivers. Master volume knob controls both speakers. Acoustic suspension design. Power On/Off switch. Mounting provision. AC adapter included. Great for use with portable compact disc players, stereos, home theater systems, computers or any output jack like an electronic keyboard.

13-387.....**$24.95**

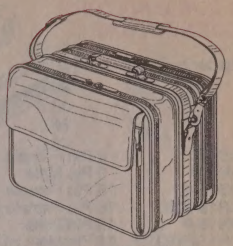
50 WATTS MAGNETICALLY SHIELDED SUBWOOFER



Mfg. - INTERACT
Mfg.# - SV-722
8-1/2" x 8-1/2" x 5"
Features independent volume, frequency, bass and on/off controls along with LED power indicator. Compatible with video games such as Super Nintendo® and Sega Genesis®. Includes AC adapter.

13-399.....**$29.95**

DELUXE LAPTOP AND PRINTER CASE



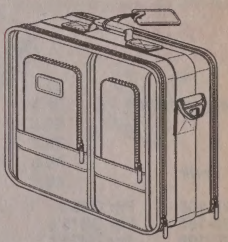
Outside dimensions: 14" x 7-1/2" x 10-1/2"
- A layer of high-density foam absorbs external impact and provides maximum protection.
- A second layer of soft foam adds cushioning and stability.
- 4 main heavy duty smooth running zippered compartment areas.
- 12" x 8-1/2" x 2-1/2" laptop storage area with velcro securing straps.
- 12" x 8-1/2" x 2-1/2" storage area with adjustable dividers.
- 6 letter size storage compartments.
- 2 hidden letter size storage compartments.
- 20 assorted sized storage pockets along with key ring holder, business card display, and adjustable shoulder strap.
- Leathery black construction.

14-447.....**$29.95**

AT&T® PORTABLE COMPUTER CASE

AT&T

Deluxe



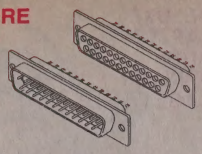
Mfg. - AT&T®
Mfg.# - 3122-K643-V00X
Black carrying case is made of "Ballistic" Nylon outer shell that resists water, abrasion and is self healing if punctured. Oversized nylon self-mending zippers. Top grain cowhide used on all trim and key stress points with double stitched seams. Padded carrying handle and padded removable adjustable shoulder strap. AT&T® stamped cowhide I.D. tag. Padlock and two keys for lockable laptop or printer storage compartments.

INSIDE COMPUTER STORAGE
12" x 10" x 3" removable laptop computer cellpack for additional protection.
10" x 3" x 3" removable accessory pack for AC adapters, cables, etc.
16" x 12" x 2" portable printer storage.
16" x 11" x 3" interior compartment when laptop cellpack and accessory packs are removed. 8 assorted pockets to carry CD's, diskettes, PCMCIA cards, etc.

OUTSIDE BUSINESS STORAGE
11" x 9-1/2" exterior compartment that houses additional pockets within to hold plane tickets, calculators, pens, business cards, etc., and a key chain hook.
11" x 6" exterior compartment.
16" x 11" exterior notebook compartment.

14-414.....**$49.95**

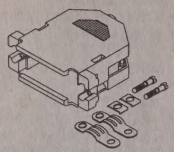
D SUBMINIATURE CONNECTORS



Solder cup

DB9-S	9 Pin Female	$ .29
DB9-P	9 Pin Male	.29
DB15-S	15 Pin Female	.44
DB15-SHD	15 Pin Female HD	.59
DB15-P	15 Pin Male	.44
DB15-PHD	15 Pin Male HD	.59
DB25-S	25 Pin Female	.49
DB25-P	25 Pin Male	.49
DB50-S	50 Pin Female	1.15
DB50-P	50 Pin Male	1.15

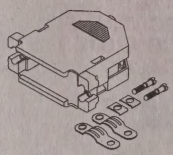
D-SUB HOODS



with hardware

Part#		*(1-99)*	*(100-Up)*
HD9	For DB9's	$ .39	$ .29
HD15	For DB15's	.49	.39
HD25	For DB25's	.50	.45

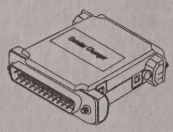
METALIZED PLASTIC D-SUB HOOD



with hardware

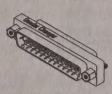
Part#		*(1-99)*	*(100-Up)*
20-106	For DB9's	$ .45	$ .39
20-107	For DB15's	.45	.39
20-108	For DB25's	.65	.55
20-109	For DB50's	1.25	1.09

GENDER CHANGERS



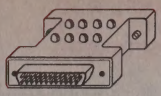
20-110	DB9 (F) to (F)	$2.45
20-114	DB9 (M) to (M)	2.45
20-115	DB15 (F) to (F)	2.89
20-118	DB15 (M) to (M)	2.89
CC100	DB25 (F) to (F)	3.49
CC101	DB25 (M) to (M)	3.49

MINI GENDER CHANGERS



20-169	DB9 (F) to (F)	$2.45
20-170	DB9 (M) to (M)	2.45
20-171	DB15 (F) to (F)	2.99
20-172	DB15 (M) to (M)	2.99
20-173	DB25 (F) to (F)	3.75
20-174	DB25 (M) to (M)	3.75

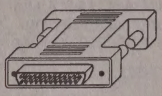
DATA LINE MONITOR



A miniature data line monitor allows the user to determine the status of the 7 key signals of the RS-232 data path. All 25 pins wired through.

DLM.....$8.95

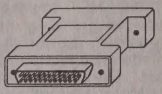
RS-232 NULL MODEM ADAPTER



DTE/DCE Null modem eliminates the need for a modem when transferring data over short transmission runs. DB25 male to DB25 female.

20-128.....$4.49

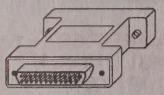
RS-232 JUMPER BOX



Allows user to customize their own interface devices such as Null modems, polarity changers, pin reversers and many more. DB25-pin male to DB25-pin female connectors. Supplied with all jumper wires and hardware.

20-126.....$6.49

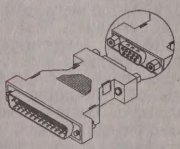
RS-232 SURGE PROTECTOR



DB25 surge protector with 8 MOVs. Protects RS-232 port from spikes. Protects 2-8 and 20.

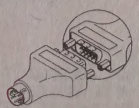
20-127.....$8.95

SERIAL PORT ADAPTERS



20-111	DB9 (F) to DB25 (M)	$3.99
20-175	DB9 (F) to DB25 (F)	3.99
20-112	DB9 (M) to DB25 (F)	3.99
20-176	DB9 (M) to DB25 (M)	3.99
20-177	DB25 (M) to CEN36 (F)	4.99
20-178	DB25 (F) to CEN36 (M)	4.99

PS/2 PORT to AT COMPATIBLE SERIAL MOUSE ADAPTER



PS/2 and compatibles. Allows you to use an AT compatible serial mouse with a PS/2 computer. One male D-sub 9-pin connector. One male 6-pin mini DIN connector. two retaining screws secure the connector in place.

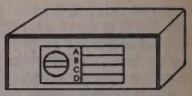
20-189.....$2.75

D-SUB HARDWARE

Metal

20-220.....11.4mm long Hex screw.....$ .05

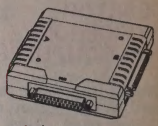
MANUAL SWITCH BOX



- Female DB25, RS-232 connectors

PS-2.....2-way.....$6.95
PS-1.....4-way.....$17.95

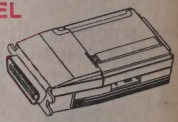
AUTO PRINTER SWITCH



- Two PC's to one unidirectional parallel device.
- Replace parallel port A/B switch
- DB25 input/output

20-216.....$12.95

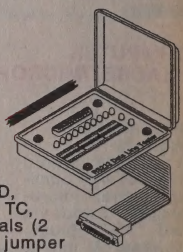
BI-DIRECTIONAL SERIAL/PARALLEL CONVERTER



- Converts Centronics parallel to/from RS232C serial.
- Female DB25 and CEN36 connectors
- Ideal for connecting an old serial printer to your PC's parallel port.

20-217.....$59.95

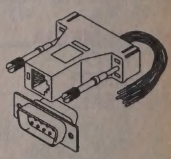
RS-232 BREAKOUT BOX



Pocket size. With 24 switches & 12 line monitor LED's simplifies cabling tasks. Ten Bi-polar LED's monitor TF, RD, RTS, CTS, DSR, CD, TC, RC, DTR & TC signals (2 spares). Includes jumper wires. No extra power required.

29-104.....$29.95

D-SUB MODULAR ADAPTERS



20-181	9 pin (M) to RJ11 (6x6)	$1.75
20-183	9 pin (M) to RJ45 (8x8)	1.75
20-182	9 pin (F) to RJ11 (6x6)	1.75
20-184	9 pin (F) to RJ45 (8x8)	1.75
20-185	25 pin (M) to RJ11 (6x6)	1.75
20-187	25 pin (M) to RJ45 (8x8)	1.75
20-186	25 pin (F) to RJ11 (6x6)	1.75
20-188	25 pin (F) to RJ45 (8x8)	1.75

FLOPPY DRIVE CABLE

91-169	30"	IDS34 x 3 (Dual)	$1.79
20-203	30"	5.25" & 3.5" (Dual Drive)	2.49

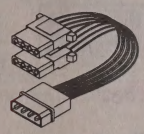
IDE HARD DRIVE CABLES

20-179	18"	IDS40 x 2 (Single)	$2.99
20-180	24"	IDS40 x 3 (Dual)	2.99

SCSI INTERNAL CABLES

20-218	22"	IDS50 x 2 SCSI Dual	$3.95
20-219	36"	HDB68 x 2 SCSI-3 Dual	14.95

3.5" AND 5.25" DISK DRIVE POWER SPLITTERS



IBM PC/XT and higher compatibles splits 4-line Molex male into 2 females. 8" overall length.

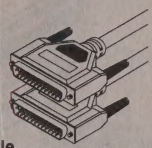
20-119.....3.5".....$2.49
20-120.....5.25".....$2.25

POWER SUPPLY EXTENSION CABLE SET

9" 6 conductor P8/P9 extension. Use with standard IBM compatible power supply and motherboards.

20-225.....$2.95

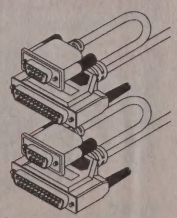
PARALLEL FILE TRANSFER CABLE



D-SUB 25 pin male to male
Lap link type parallel cable. Used to transfer information between computers via the parallel port.

20-147.....8ft long.....$3.49

UNIVERSAL FILE TRANSFER CABLE

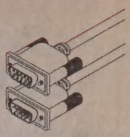


Dual D-SUB 25 pin female to D-SUB 9 pin female
Lap link type cable. Used to transfer information between two computers. Serial configuration.

20-146.....8ft long.....$6.49

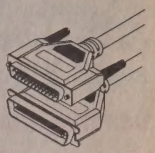
MONITOR CABLES

20-122	6ft.	DB9 Male to DB9 Female Extension	$4.49
20-148	10ft.	DB9 Male to DB9 Female Extension	6.49
20-158	10ft.	DB9 Male to DB9 Male	6.49
20-123	6ft.	DB15 Male to DB15 Female Extension	3.99
20-139	10ft.	DB15 Male to DB15 Female Extension	4.99
20-138	6ft.	DB15 Male to DB15 Male	3.99

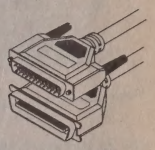


PARALLEL PRINTER CABLES

20-143	6ft.	DB25 Male to CEN36 Male Printer	$4.95
20-105	10ft.	DB25 Male to CEN36 Male Printer	6.49
20-144	25ft.	DB25 Male to CEN36 Male Printer	7.99
20-145	6ft.	CEN36 Male to CEN36 Female Extension	7.99
20-140	6ft.	CEN36 Male to CEN36 Male Printer	7.95
20-141	10ft.	CEN36 Male to CEN36 Male Printer	9.95
20-142	25ft.	CEN36 Male to CEN36 Male Printer	14.95



IEEE-1284 PARALLEL PRINTER CABLES



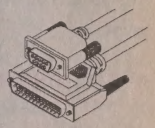
IEEE 1284-AB compliant parallel printer cables. Required cable by Hewlett-Packard, Cannon, NEC, Okidata, Lexmark, Brother and Apple. Bi-directional high-speed enhanced data transfer. 26 AWG 18-pair CEN36-Male to DB25-Male. Fully foil and 85% braid shielded. Ash-grey jacket - rugged molded construction. Long grip-textured slotted thumbscrews. 107pF/m unbalanced capacitance at 1 MHz. 62 ohms unbalanced impedance at 4-16 MHz. Maximum attenuation 1.5 dB at 5 MHz.

6ft IEEE-1284 Parallel printer cable
20-226.....DB25 Male to CEN36 Male.....$9.95

10ft IEEE-1284 Parallel printer cable
20-227.....DB25 Male to CEN36 Male.....$14.95

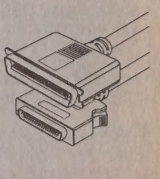
SERIAL CABLES

20-129	7.5ft.	DB9 Female to DB25 Male Modem	$1.49
20-121	6ft.	DB9 Female to DB25 Male Modem	4.49
20-234	6ft.	DB9 Female to DB25 Male Null Modem	3.99
20-100	6ft.	DB25 Male to DB25 Male RS232 Switchbox	8.95
20-102	6ft.	DB25 Male to DB25 Female RS232 Extension	8.95
20-233	6ft.	DB25 Male to DB25 Female Null Modem	3.99



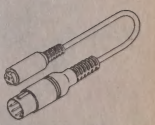
SCSI CABLES

20-159	3ft.	CEN50 Male to CEN50 Male / SCSI-1 to SCSI-1	$8.95
20-231	3ft.	DB25 Male to HD50 Male / DSUB to SCSI-2	8.95
20-133	3ft.	DB25 Male to CEN50 Male / DSUB to SCSI-1	5.95
20-232	6ft.	DB25 Male to CEN50 Male / DSUB to SCSI-1	7.95
20-132	3ft.	HD50 Male to CEN50 Male / SCSI-2 to SCSI-1	10.99
20-161	3ft.	CEN50 Male to CEN50 Female / SCSI-1 to SCSI-1	9.95
20-163	3ft.	HD50 Male to HD50 Male / SCSI-2 to SCSI-2	19.95
20-164	3ft.	HD50 Male to HDP68 Male / SCSI-2 to SCSI-3	19.95
20-165	3ft.	HDP68 Male to CEN50 Male / SCSI-3 to SCSI-1	19.95
20-166	3ft.	HDP68 Male to HDP68 Male / SCSI-3 to SCSI-3	27.95



KEYBOARD CABLES

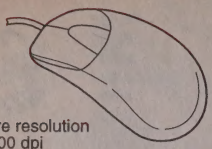
20-131	7in.	5 Pin Female Din to 6 Pin Mini Male Din	$ 1.95
20-134	7.5in	6 Pin Mini Female Din to 5 Pin Male Din	1.95
20-135	6ft.	6 Pin Mini Male Din to 6 Pin Mini Female Din	2.95
20-168	6ft.	6 Pin Mini Male Din to 6 Pin Mini Male Din	1.95
20-136	6ft.	5 Pin Male Din to 5 Pin Female Din Coiled	2.95
20-137	6ft.	5 Pin Male Din to 5 Pin Male Din Musical Instrument Cable	1.95



WE STOCK!

USB MOUSE

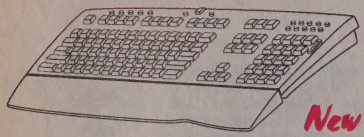
New



- Hardware resolution up to 4200 dpi
- Ergonomic design feels great in your hand
- Full compatible USB host device drivers available
- Optical/Mechanical design for sure tracking

20-257.....**$18.95**

USB WIN98 KEYBOARD

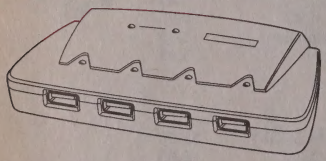


New

104 or 105 key compatible layouts
(includes the 3 additional Windows 95 keys)
- Plug & Play USB interface
- Additional PS/2 mouse port
- Built-in new NetMedia specifications
- Direct operates internet browsing and multimedia CD/VCD/DVD playback.
- Advanced USB interface
- Detachable ergonomic wrist-support.

20-256.....**$44.95**

4-PORT *USB* HUB



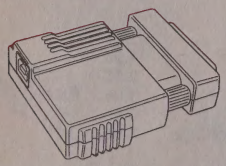
- Self-powered USB hub with bus-powered controller
- Plug & Play compatible
- Portable and daisy-chainable
- Bus fault detection and recovery
- USB 1.0 specification compatibility

New

20-260.....**$59.95**

USB SERIAL CONVERTER

New



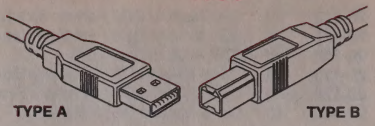
2-7/8" x 2-1/2" x 1-1/4"
- Connects RS232 device to USB interface
- Provides additional COM port
- Bus powered from USB

Comes complete with software. Requires USB-enabled Windows operating system.

20-255.....**$89.95**

USB CABLES

New



Connect your new USB devices to your USB capable system or hub with one of these new USB cables.

6ft Type A to Type A - 4 pin Female to Female
20-228.....**$5.49**

10ft Type A to Type A - 4 pin Female to Female
20-263.....**$7.95**

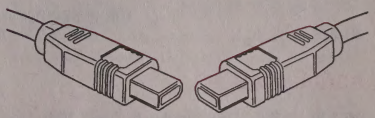
6ft Type A to Type B - 4 pin Female to Female
20-229.....**$6.95**

10ft Type A to Type B - 4 pin Female to Female
20-264.....**$8.95**

Dual USB Bracket - PS/2 Connector
20-230.....**$9.95**

FIREWIRE CABLE

New

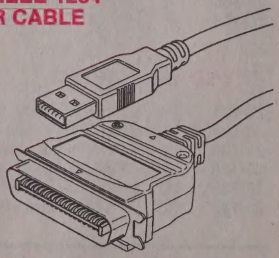


6ft IEEE 1394
Data transfer rate of 50 Mbps, compared to 10 Mbps for fast SCSI (SCSI-2) and 20 Mbps for fast wide SCSI-2. FireWire can supply power to connected devices, so you don't have to have a separate power cord for each peripheral. Plug-in and unplug devices without rebooting your computer. Cheaper than the SCSI interface. The practical benefits for Macintosh users could include faster hard drives, and the ability to play full-motion video without special hardware or software to compress and decompress the data. You could also transfer large files from digital cameras in the blink of an eye!

20-261.....**$19.95**

USB TO IEEE-1284 PRINTER CABLE

New

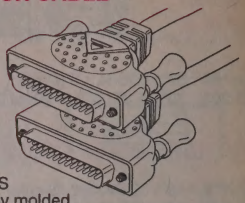


4 pin USB to IEEE-1284 36-pin male centronics connector. Full compliance with the USB spec 1.0. Supports true bi-directional communication. Fully plug and play compatible.

20-254.....**$48.95**

25 PIN MALE/MALE SWITCH BOX CABLE

New



Mfg. - WOODS
10ft beige, fully molded.
DB25 Male to DB25 Male switch box cable.
25 conductor straight through.
Mfg lifetime warranty.

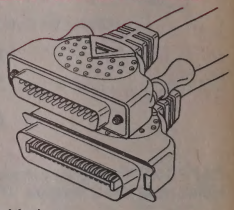
20-258.....**$4.95**

6FT PARALLEL PRINTER CABLE

IEEE-1284 COMPLIANT

New

Bi-directional

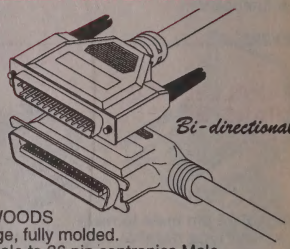


Mfg. - WOODS
25ft black, fully molded.
DB25 Male to 36 pin centronics Male.
Clean data transfer, faster transfer speed.
Mfg lifetime warranty.

20-235.....**$7.95**

10FT RIGHT ANGLE PARALLEL PRINTER CABLE

New

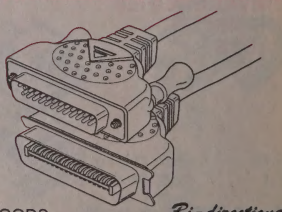


Mfg. - WOODS
10ft beige, fully molded.
DB25 Male to 36 pin centronics Male.
Mfg lifetime warranty.

20-262.....**$4.95**

25FT PARALLEL PRINTER CABLE

New



Mfg. - WOODS
25ft beige, fully molded.
DB25 Male to 36 pin centronics Male.
Mfg lifetime warranty.

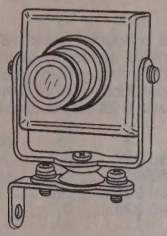
20-259.....**$5.95**

BLACK & WHITE MINI CAMERAS

Mfg. - MARSHAL
1-1/8"sq x 3/8"
1/4" CCD camera with built-in 3.6mm lens with electronic iris. .4 lux minimum illumination. 380 lines of resolution. Requires 7.5-14.5 VDC. Comes with mounting brackets for wall and ceiling mount along with 6ft RCA cable.

BLACK & WHITE

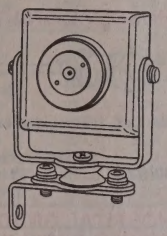
New



V-1215T.....**$79.95**
75-350.....60ft extension cable.....**$19.95**
56-346.....Power supply for above.....**$12.95**

WITH PINHOLE LENS

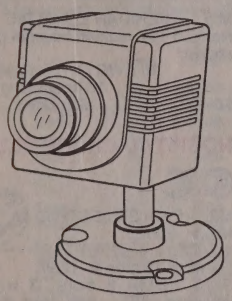
New



V-1215T-PL.....**$79.95**
75-350.....60ft extension cable.....**$19.95**
56-346.....Power supply for above.....**$12.95**

MINI COLOR CAMERA

New



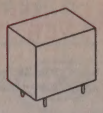
Mfg. - MARSHAL
1-1/2"sq x 7/8"
1/4" CCD camera with 3.7mm built-in lens with electronic auto iris. 10 lux minimum illumination. >300 lines of resolution. High quality PCB with new high tech surface mounting technique ensures resistance from shock & vibration. Auto white balance. Comes with mounting bracket and 6ft RCA cable.

V-1246T.....**$99.95**
75-350.....60ft extension cable.....**$19.95**
56-346.....Power supply for above.....**$12.95**

See pages 159-168 for additional security products.

5 VDC - SPST N.O. RELAY

New

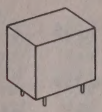


Mfg.# - 33C23D5
5 amp @ 120 VAC
Coil resistance: 36 ohm

45-660.....1" x 5/8" x 13/16".....**$ .99**

12 VDC - SPST N.O. RELAY

New

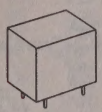


Mfg.# - R33A63D12
5 amp @ 120 VAC
Coil resistance: 405 ohm

45-661.....1" x 5/8" x 13/16".....**$ .99**

12 VDC - SPST N.O. RELAY

New

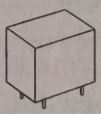


Mfg.# - HR33A63S12
15 amp @ 120 VAC
Coil resistance: 405 ohm

45-662.....1" x 5/8" x 13/16".....**$ .99**

24 VDC - SPST N.O. RELAY

New



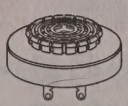
Mfg.# - 33A23S24
5 amp @ 120 VAC
Coil resistance: 1800 ohm

45-663.....1" x 5/8" x 13/16".....**$ .99**

See pages 36-45 for full relay selection.

SONALERT

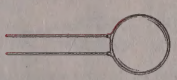
New



Mfg. - MALLORY
Mfg.# - SNP428
1-5/8"dia x 3/8" D
4-28 VDC @ 3-18mA
Continuous tone 2900 Hz, 64 to 76dB

SNP428.....**$5.95**

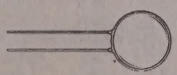
METAL OXIDE VARISTOR



Mfg. - CTE
17mm dia
4 joules, 10 amp 43V max clamping
1000 amp peak, 15,000 pf

New

Z15L220.....**$ .19**



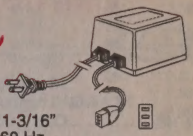
Mfg. - CTE
17mm dia
20 joules, 165 amp 43V max clamping
4500 amp peak, 2400 pf

New

Z15L101.....**$ .19**

24 VAC @ 700 mA ADAPTER

New



Mfg. - AULT
3-3/16" x 2-3/16" x 1-3/16"
Input: 127 VAC @ 60 Hz
Output: 24 VAC @ 700 mA
The enclosure and 6ft input/output cords are black. Output via 3 pin molex connector.

	(1-99)	*(100-Up)*
56-668.....	**$2.49**.....	**$1.99**

9-IN-1 SCREWDRIVER WITH LIGHT

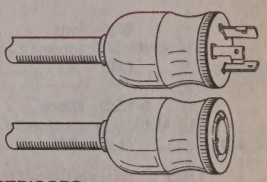
New

9" x 1-1/4"
15" retractable magnetic wand. 23-1/2" fully extended with magnetic wand. Built in dual miniature light bulbs for easy viewing in low light or in small spaces. Industrial quality tool steel bits. 3/16" and 1/4" slotted tips, #1 and #2 Phillips and T15 and T20 Torx. Shaft acts as a 1/4" socket drive. 4-1/2" rubber gripped handle for non-slip handling. Shaft self stores tips. Requires two "AAA" batteries (not included).

54-238.....**$5.39**

100FT OUTDOOR SUPER-HEAVY DUTY POWER CORD

New



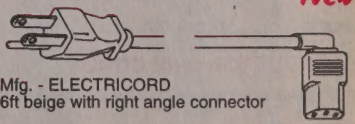
Mfg. - ELECTRICORD
Twist-to-lock plug secures power connections. Water resistant. Grey color cord with black ends.

12 AWG / 3 Conductor - SOW-A
15 amp / 1875 watt / 600 volt

60-513..... O.D. - .575" **$39.95**

IEC POWER CORD

New

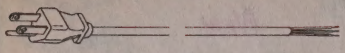


Mfg. - ELECTRICORD
6ft beige with right angle connector

18 AWG / 3 conductor - SVT

	(1-99)	*(100-Up)*
60-514.....	**$1.25**.....	**$ .99**

3 CONDUCTOR LINE CORDS



1ft - Beige
18 AWG/ 3 conductor-SJT0
60-166.....O.D. - .32".....$ .45

1-1/2ft - Black
18 AWG/ 3 conductor-SJT
60-365.....O.D. - .31".....$ .65

3-1/2ft - Black
18 AWG/ 3 conductor-SVT
With molded strain relief for a 3/8" x 9/16" hole.
(1-99) (100-Up)
60-363.....O.D. - .25".....$ .99.....$ .75

3ft-9" - Black
18 AWG/ 3 conductor-SVT
60-317.....O.D. - .25".....$1.35

5ft-8" - Beige
14 AWG/ 3 conductor-SJT
60-372.....O.D. - .35".....$1.99

6ft - Gray
18 AWG/ 3 conductor-SJT
60-373.....O.D. - .31".....$2.25

6-1/2ft - Black
18 AWG/ 3 conductor-SJTW-A
60-407.....O.D. - .34".....$1.99

7ft - Black
18 AWG/ 3 conductor-SVT
With molded strain relief for a 5/8"sq hole.
60-316.....O.D. - .24".....$1.95

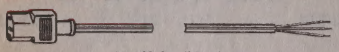
7ft - Black
18 AWG/ 3 conductor-SVT
60-370.....O.D. - .25".....$1.75

8ft - Gray
14 AWG/ 3 conductor-SJT
60-408.....O.D. - .36".....$2.49

9-1/2ft - Black
18 AWG/ 3 conductor-SVT
60-371.....O.D. - .24".....$2.99

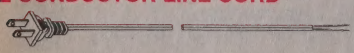
18ft - safety yellow
18 AWG/ 3 conductor-SJT
60-207.....O.D. - .30".....$1.89

I.E.C. CORD



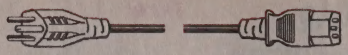
7-1/2 ft - Black
18 AWG/ 3 conductor-SVT
60-364.....O.D. - .25".....$1.99

2 CONDUCTOR LINE CORD



5ft 3" - black, polarized
18 AWG/ 2 conductor-SPT-2
(1-99) (100-Up)
60-250.....Flat.....$ .59.....$ .49

3 CONDUCTOR (18 AWG) POWER SUPPLY CORDS



4ft - Gray - SVT
60-366.....$1.25

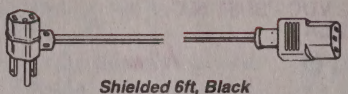
6ft -Taupe - SVT
60-327.....$1.75

6ft - Black - SVT
60-246.....$2.59

6ft - Beige - SVT
60-169.....shielded.....$3.25

14-1/2ft - Black - SJT
60-411.....$3.99

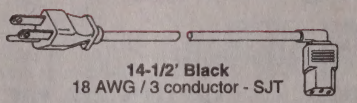
SHIELDED POWER SUPPLY CORD



Shielded 6ft, Black
18 AWG/3 conductor, SJT
60-344.....$1.49

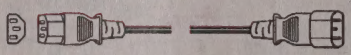
Shielded 6'7", Black
Mfg. - BELDEN, #17666
18 AWG/3 conductor, SVT
60-328.....$1.49

IEC POWER CORDS EXTRA LONG



14-1/2' Black
18 AWG / 3 conductor - SJT
60-410.....Right Angle.....$3.99

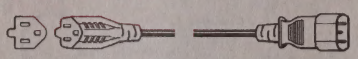
MONITOR POWER ADAPTER CABLE



For PC/XT/AT and compatible computers. Allows connection of monitors direct to standard IBM type power supplies.

60-351.....6ft - Black.....$3.49

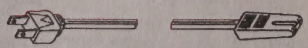
JUMPER CORD



Allows for 1ft extension of your monitor or power supply cords.

60-319.....1ft - Black.....$2.99

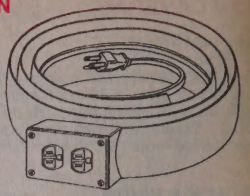
SONY POWER CORD



6ft cord for Sony radios, tape recorders, etc.

AN11.....6ft.....$1.00

FLAT SAFETY EXTENSION CORD

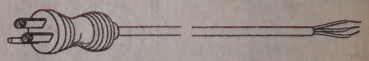


3 conductor, rated 15 amp @ 125 VAC. Premade assembly features a virtually indestructible heavy duty plastic housing with dual 3 conductor outlets with a flat flexible vinyl runner with a 2ft extension cord for wall connection.

BEIGE
60-387.....6ft.....$9.95
60-388.....9ft.....$12.95
60-389.....12ft.....$17.95
60-390.....15ft.....$19.95

BROWN
60-391.....6ft.....$9.95
60-393.....12ft.....$17.95
60-394.....15ft.....$19.95

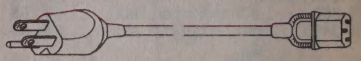
HOSPITAL GRADE LINE CORD



Nema 5-15P molded hospital grade plug.

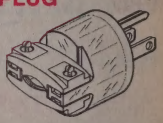
18 AWG / 3 conductor - SJT
60-503.....6ft - Grey.....$4.95

HOSPITAL GRADE POWER SUPPLY CORD



Mfg. - AMERICAN ELECTRIC
Nema 5-15P molded hospital grade plug to IEC socket.
18 AWG / 3 conductor - SJT
10 amp rating
60-409.....6ft - Black.....$5.95

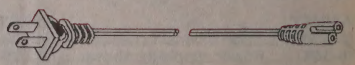
HOSPITAL GRADE PLUG



Mfg. - EAGLE ELECTRIC
Mfg.# - 8266
1-3/4"(L) x 1-1/2"(D)
Rated at 15 amp @ 125V
5-15 NEMA 2 pole, 3 wire grounding. Accepts .25" - .69" cord diameter. Clear high impact- resistant thermoplastic housing. MADE IN USA.

8266.....$4.95

PANASONIC POWER CORD

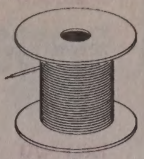


6ft cord for Panasonic radios, tape recorders, etc.

AN10.....6ft.....$1.00

SINGLE CONDUCTOR SOLID HOOK-UP WIRE

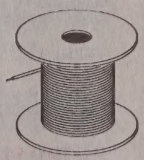
18-26 AWG copper solid wire with PVC insulation.
This standard hook-up wire is available on 25ft and 100ft spools.



Part#	AWG	Color	Length	Price
36-259	18	Grey	25'	$3.09
36-260	18	Black	25'	3.09
36-261	18	Brown	25'	3.09
36-262	18	Orange	25'	3.09
36-263	18	Ivory	25'	3.09
36-264	18	Violet	25'	3.09
36-265	18	Red	25'	3.09
36-266	18	Green	25'	3.09
36-267	18	Yellow	25'	3.09
36-268	18	Lt. Blue	25'	3.09
36-269	18	Grey	100'	5.99
36-270	18	Black	100'	5.99
36-271	18	Brown	100'	5.99
36-272	18	Orange	100'	5.99
36-273	18	Ivory	100'	5.99
36-274	18	Violet	100'	5.99
36-275	18	Red	100'	5.99
36-276	18	Green	100'	5.99
36-277	18	Yellow	100'	5.99
36-278	18	Lt. Blue	100'	5.99
36-279	20	Grey	25'	2.79
36-280	20	Black	25'	2.79
36-281	20	Brown	25'	2.79
36-282	20	Orange	25'	2.79
36-283	20	Ivory	25'	2.79
36-284	20	Violet	25'	2.79
36-285	20	Red	25'	2.79
36-286	20	Green	25'	2.79
36-287	20	Yellow	25'	2.79
36-288	20	Lt. Blue	25'	2.79
36-289	20	Grey	100'	4.99
36-290	20	Black	100'	4.99
36-291	20	Brown	100'	4.99
36-292	20	Orange	100'	4.99
36-293	20	Ivory	100'	4.99
36-294	20	Violet	100'	4.99
36-295	20	Red	100'	4.99
36-296	20	Green	100'	4.99
36-297	20	Yellow	100'	4.99
36-298	20	Lt. Blue	100'	4.99
36-299	22	Grey	25'	2.25
36-300	22	Black	25'	2.25
36-301	22	Brown	25'	2.25
36-302	22	Orange	25'	2.25
36-303	22	Ivory	25'	2.25
36-304	22	Violet	25'	2.25
36-305	22	Red	25'	2.25
36-306	22	Green	25'	2.25
36-307	22	Yellow	25'	2.25
36-308	22	Lt. Blue	25'	2.25
36-309	22	Grey	100'	4.09
36-310	22	Black	100'	4.09
36-311	22	Brown	100'	4.09
36-312	22	Orange	100'	4.09
36-313	22	Ivory	100'	4.09
36-314	22	Violet	100'	4.09
36-315	22	Red	100'	4.09
36-316	22	Green	100'	4.09
36-317	22	Yellow	100'	4.09
36-318	22	Lt. Blue	100'	4.09
36-319	24	Grey	25'	2.39
36-320	24	Black	25'	2.39
36-321	24	Brown	25'	2.39
36-322	24	Orange	25'	2.39
36-323	24	Ivory	25'	2.39
36-324	24	Violet	25'	2.39
36-325	24	Red	25'	2.39
36-326	24	Green	25'	2.39
36-327	24	Yellow	25'	2.39
36-328	24	Lt. Blue	25'	2.39
36-329	24	Grey	100'	3.85
36-330	24	Black	100'	3.85
36-331	24	Brown	100'	3.85
36-332	24	Orange	100'	3.85
36-333	24	Ivory	100'	3.85
36-334	24	Violet	100'	3.85
36-335	24	Red	100'	3.85
36-336	24	Green	100'	3.85
36-337	24	Yellow	100'	3.85
36-338	24	Lt. Blue	100'	3.85
36-339	26	Grey	25'	2.39
36-340	26	Black	25'	2.39
36-341	26	Brown	25'	2.39
36-342	26	Orange	25'	2.39
36-343	26	Ivory	25'	2.39
36-344	26	Violet	25'	2.39
36-345	26	Red	25'	2.39
36-346	26	Green	25'	2.39
36-347	26	Yellow	25'	2.39
36-348	26	Lt. Blue	25'	2.39
36-349	26	Grey	100'	3.35
36-350	26	Black	100'	3.35
36-351	26	Brown	100'	3.35
36-352	26	Orange	100'	3.35
36-353	26	Ivory	100'	3.35
36-354	26	Violet	100'	3.35
36-355	26	Red	100'	3.35
36-356	26	Green	100'	3.35
36-357	26	Yellow	100'	3.35
36-358	26	Lt. Blue	100'	3.35

SINGLE CONDUCTOR STRANDED HOOK-UP WIRE

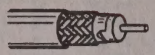
18-26 AWG copper stranded wire with PVC insulation.
This standard hook-up wire is available on 25ft and 100ft spools.



Part#	AWG	Color	Length	Price
36-148	18	Grey	25'	$3.40
36-149	18	Black	25'	3.40
36-150	18	Brown	25'	3.40
36-151	18	Orange	25'	3.40
36-152	18	Ivory	25'	3.40
36-153	18	Violet	25'	3.40
36-154	18	Red	25'	3.40
36-155	18	Green	25'	3.40
36-156	18	Yellow	25'	3.40
36-157	18	Lt. Blue	25'	3.40
36-158	18	Grey	100'	6.95
36-159	18	Black	100'	6.95
36-160	18	Brown	100'	6.95
36-161	18	Orange	100'	6.95
36-162	18	Ivory	100'	6.95
36-163	18	Violet	100'	6.95
36-164	18	Red	100'	6.95
36-165	18	Green	100'	6.95
36-166	18	Yellow	100'	6.95
36-167	18	Lt. Blue	100'	6.95
36-168	20	Grey	25'	2.95
36-169	20	Black	25'	2.95
36-170	20	Brown	25'	2.95
36-171	20	Orange	25'	2.95
36-172	20	Ivory	25'	2.95
36-173	20	Violet	25'	2.95
36-174	20	Red	25'	2.95
36-175	20	Green	25'	2.95
36-176	20	Yellow	25'	2.95
36-177	20	Lt. Blue	25'	2.95
36-178	20	Grey	100'	5.49
36-179	20	Black	100'	5.49
36-180	20	Brown	100'	5.49
36-181	20	Orange	100'	5.49
36-182	20	Ivory	100'	5.49
36-183	20	Violet	100'	5.49
36-184	20	Red	100'	5.49
36-185	20	Green	100'	5.49
36-186	20	Yellow	100'	5.49
36-187	20	Lt. Blue	100'	5.49
36-188	22	Grey	25'	2.79
36-189	22	Black	25'	2.79
36-190	22	Brown	25'	2.79
36-191	22	Orange	25'	2.79
36-192	22	Ivory	25'	2.79
36-193	22	Violet	25'	2.79
36-194	22	Red	25'	2.79
36-195	22	Green	25'	2.79
36-196	22	Yellow	25'	2.79
36-197	22	Lt. Blue	25'	2.79
36-198	22	Grey	100'	4.39
36-199	22	Black	100'	4.39
36-200	22	Brown	100'	4.39
36-201	22	Orange	100'	4.39
36-202	22	Ivory	100'	4.39
36-203	22	Violet	100'	4.39
36-204	22	Red	100'	4.39
36-205	22	Green	100'	4.39
36-206	22	Yellow	100'	4.39
36-207	22	Lt. Blue	100'	4.39
36-208	24	Grey	25'	2.39
36-209	24	Black	25'	2.39
36-210	24	Brown	25'	2.39
36-211	24	Orange	25'	2.39
36-212	24	Ivory	25'	2.39
36-213	24	Violet	25'	2.39
36-214	24	Red	25'	2.39
36-215	24	Green	25'	2.39
36-216	24	Yellow	25'	2.39
36-217	24	Lt. Blue	25'	2.39
36-218	24	Grey	100'	4.05
36-219	24	Black	100'	4.05
36-220	24	Brown	100'	4.05
36-221	24	Orange	100'	4.05
36-222	24	Ivory	100'	4.05
36-223	24	Violet	100'	4.05
36-224	24	Red	100'	4.05
36-225	24	Green	100'	4.05
36-226	24	Yellow	100'	4.05
36-227	24	Lt. Blue	100'	4.05
36-228	26	Grey	25'	2.49
36-229	26	Black	25'	2.49
36-230	26	Brown	25'	2.49
36-231	26	Orange	25'	2.49
36-232	26	Ivory	25'	2.49
36-233	26	Violet	25'	2.49
36-234	26	Red	25'	2.49
36-235	26	Green	25'	2.49
36-236	26	Yellow	25'	2.49
36-237	26	Lt. Blue	25'	2.49
36-238	26	Grey	100'	3.69
36-239	26	Black	100'	3.69
36-240	26	Brown	100'	3.69
36-241	26	Orange	100'	3.69
36-242	26	Ivory	100'	3.69
36-243	26	Violet	100'	3.69
36-244	26	Red	100'	3.69
36-245	26	Green	100'	3.69
36-246	26	Yellow	100'	3.69
36-247	26	Lt. Blue	100'	3.69

BROADCAST COMMUNICATION COAXIAL CABLES
UL Listed CATV

RG6/U



75 ohm impedance. Black
18 AWG solid bare copper center
Foam dielectric .18" OD

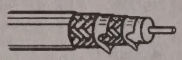
100% foil and 40% aluminum braid shield

		per ft.	1Kft.
60-236	.28" OD	$ .12	$ .10

100% foil and 60% aluminum braid shield

60-472	.28" OD	$ .14	$ .12

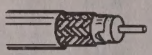
RG6/U QUAD SHIELD FOIL & BRAID



2 - 100% foil shield &
2 - braid aluminum shield
18 AWG solid bare copper center
Foam dielectric .18" OD

		per ft.	1Kft.
60-473	.28" OD	$ .18	$ .15

RG6/U PLENUM



UL Listed CL2P
Aluminum foil & 60% aluminum braid
18 AWG solid bare copper center
Foam FEP dielectric .18" OD

		per ft.	1Kft.
60-474	.28" OD	$ .58	$ .48

RG59/U

UL Listed *CATV*
75 ohm impedance
22 AWG solid bare copper center
100% foil and 40% aluminum braid shield
Foam dielectric .14" OD

		per ft.	1Kft.
60-506	.242" OD	$ .12	$ .09

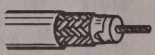
UL Listed CL2

RG-8/U

Military grade
50 ohm impedance
11 AWG stranded center, 95% copper shield
Foam dielectric .285" OD

36-111	.40" OD black	$ .39/ft	

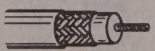
RG MINI 8X



13 AWG stranded center
70% copper shield
RG-8X-95

		per ft.	1Kft.
60-216	.24" OD gray	$ .23	$ .20

RG11



75 ohm impedance
13 AWG stranded center
80% copper shield

		per ft.	1Kft.
60-413	.24" OD gray	$ .45	$ .39

RG62A/U

93 ohm impedance
22 AWG solid center
95% copper shield

		per ft.	1Kft.
60-237	.24" OD black	$ .19	$ .16

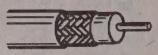
RG174/U

50 ohm impedance
26 AWG stranded center
88% copper shield

		per ft.	1Kft.
60-238	.1" OD black	$ .19	$ .16

CLOSED CIRCUIT COAXIAL CABLES
UL Listed CL2

RG59/U



Military grade
75 ohm impedance
22 AWG solid bare copper center
95% copper shield
Foam poly dielectric .14" OD

		per ft.	1Kft.
60-479	.242" OD	$ .18	$ .15

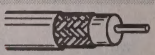
RG59/U with Power Cable

Coax: 80 ohm impedance
22 solid bare copper center
95% bare copper shield
Siameased with 18/2 cable. Ideal for CCTV, radio and TV cameras with audio.
Foam poly dielectric .14" OD

		per ft.	1Kft.
36-250		$ .35	$ .29

UL Listed CL2P PLENUM

RG59/U PLENUM

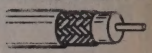


75 ohm impedance
20 AWG solid bare copper center
95% bare copper braid
Foam FEP dielectric .14" OD

		per ft.	1Kft.
60-605	.208" OD	$ .40	$ .35

COMMUNICATION COAXIAL CABLES
UL Listed CL2

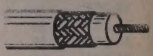
RG58/U



50 ohm impedance
20 AWG solid bare copper center
95% tinned copper shield
Poly dielectric .116" OD

		per ft.	1Kft.
60-475	.195" OD black	$ .14	$ .12

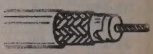
RG58A/U



50 ohm impedance
20 AWG (19 x 33) stranded center
95% tinned copper shield
Foam dielectric .116" OD

60-217	.195" OD black	$ .14/ft	

RG58A/U THINNET

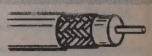


50 ohm impedance
20 AWG (19 x 32) tinned
copper stranded center.
95% aluminum foil tinned copper shield
Foam poly dielectric .102" OD

		per ft.	1Kft.
60-476	.165" OD black	$ .17	$ .15

UL Listed CL2P PLENUM

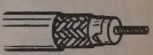
RG58/U PLENUM



50 ohm impedance
20 AWG solid copper center
95% bare copper braid
FEP dielectric .112" OD

		per ft.	1Kft.
60-477	.168" OD black	$ .38	$ .32

RG58A/U THINNET PLENUM



50 ohm impedance
20 AWG (19 x 32) tinned copper stranded center
95% aluminum foil tinned copper shield
Foam FEP dielectric .102" OD

		per ft.	1Kft.
60-478	.165" OD black	$ .40	$ .35

RIBBON CABLE

Gray 28 AWG stranded ribbon cable with .05" center spacing. Mates with all industry stranded flat cable connectors.

Part#		Price 10ft	100ft
36-129	*20 Conductor*	$2.90	$23.00
	(Blue in Color)		
36-127	*26 Conductor*	$3.80	$29.00
36-131	*34 Conductor*	$4.90	$39.00
36-133	*40 Conductor*	$5.90	$45.00
36-135	*50 Conductor*	$7.50	$59.00
36-137	*60 Conductor*	$8.90	$75.00

SHIELDED CABLE

Single conductor 22 AWG tinned copper with 76% tinned copper braid. 15.7 ohms/M ft. nom. DC resistance - center conductor. 12.1 ohms/M ft. nom. DC resistance - shield 70pf/ft. nom. to shield. .147" dia with gray PVC jacket.

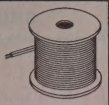
36-361		$ .08 ft

8 AWG HOOK-UP WIRE

Mfg. - DEARBORN
Mfg.# - 236133
Stranded tinned copper with PVC insulation. Stranding: 133/29. Nom OD: .247". Jacket thickness: .04". Voltage rating: 3000 volt. Mil-Spec (MIL-W-16878D)

60-352	White	$ .29 ft	
60-353	Blue	$ .29 ft	

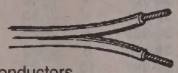
RED & BLACK MARRIED CABLE



Copper stranded zip cord, color coded red and black for polarity identification.

Part#	Length	Price
	18 AWG	
60-192	100ft spool	$8.59
60-193	250ft spool	19.49
	16 AWG	
60-194	100ft spool	12.59
60-195	250ft spool	28.69
	12 AWG	
60-196	100ft spool	26.99
60-197	250ft spool	58.99
	10 AWG	
60-397	100ft spool	36.95

SPEAKER WIRE ZIP CORD

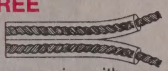


Two stranded, parallel conductors.
Used for stereo speaker, automotive cable or any low voltage application. Marked for polarity. Can be separated at ends for hook-up.

Now available in 500ft & 1000ft lengths

Part#	Length	Price
	22 AWG	
36-100	100ft spool	$3.99
36-256	500ft spool	$17.95
36-257	1000ft spool	$31.95
	18 AWG	
36-121	100ft spool	$6.99
36-258	500ft spool	$31.45
36-251	1000ft spool	$55.99
	16 AWG	
36-122	100ft spool	$12.99
36-252	500ft spool	$56.99
36-253	1000ft spool	$99.00
	14 AWG	
36-123	100ft spool	$17.99
36-254	500ft spool	$79.50
36-255	1000ft spool	$142.95

SUPER OXYGEN FREE SPEAKER WIRE

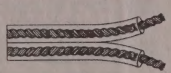


16 AWG 2conductor
Features oxygen free copper wire with clear PVC insulation. For exceptional dynamics and improved bass performance. Positive polarity indicated. Marked in one foot increments.

Made in USA

36-366.....75ft Hank/ $12.95

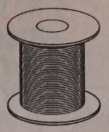
OXYGEN FREE SPEAKER WIRE



12 gauge 2 conductor
420 strands of copper wire with clear PVC insulation. Positive and negative markings. Extremely low capacitance, resistance and inductance of these cables transfer signals with high clarity and definition.

	(50ft)	(100ft)	(250ft)
36-147	$27.95	$46.80	$91.75

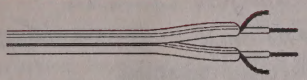
MAGNET WIRE



1/2 lb. spools of quality magnet wire. Designed for coils and other uses requiring ease in soldering. No scraping needed, just touch with tinned iron. Length shown is approximate and may vary slightly.

Part#	AWG	Length	Price
36-368	32	2400ft	$8.25
36-369	30	1600ft	8.25
36-370	28	1000ft	7.75
36-371	26	600ft	7.75
36-372	24	400ft	6.75
36-373	22	250ft	6.75
36-374	20	150ft	6.75
36-375	18	100ft	4.75
36-376	16	60ft	4.75
36-377	14	40ft	4.75

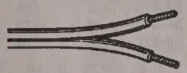
2 CONDUCTOR SHIELDED PARALLEL CABLE



2 conductor shielded 22 AWG stranded copper conductors. Zip cord jacketed construction.

36-360.....Gray.....250ft/$19.95

SPEAKER WIRE ZIP CORD



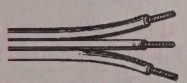
Two stranded, parallel conductors. Used for stereo speakers, automotive cable or any low voltage application. Marked for polarity.

20 AWG - White
36-362.....1000FT.....$29.95

20 AWG - Brown
36-367.....1000FT.....$29.95

18 AWG - Brown
36-363.....1000FT.....$39.95

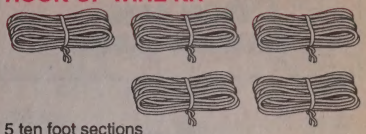
16/3 FLAT WIRE



Mfg. - BELDEN
16 AWG/3 conductor, black flat wire
3/64" neoprene insulation.

36-124.....100ft/$9.95

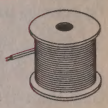
HOOK-UP WIRE KIT



5 ten foot sections
23 AWG stranded wire
Includes *Red, Black, Yellow, White* and *Blue.*

36-378.....$1.49

2 CONDUCTOR COMMUNICATION CABLE



Mfg. - CAROL
Mfg.# - C6348
2 conductor, 22 AWG
7/30 conductor strands
Black/Red color code

	(100ft-Up)	(1000ft-Up)
36-146	$ .06	$ .04

SUPERIOR QUALITY MICROPHONE CABLE

Mfg. - BELDEN
Mfg.# - 8420
2 conductor with braided shield. 24 AWG conductors. For low impedance applications. .180" OD

Part#	Length	Price
36-115	100ft spool	$29.95
36-116	500ft spool	119.95

SINGLE CONDUCTOR HOOK-UP WIRE

18-26 AWG copper wire with PVC insulation.

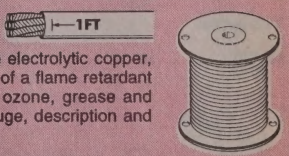
SOLID

Part#	AWG	Color	Length	Price
36-260B	18	Black	25'	$1.49
36-263B	18	Ivory	25'	1.49
36-320B	24	Black	25'	1.49
36-325B	24	Red	25'	1.49

STRANDED

Part#	AWG	Color	Length	Price
36-149B	18	Black	25'	$1.49
36-152B	18	Ivory	25'	1.49
36-154B	18	Red	25'	1.49
36-209B	24	Black	25'	1.49
36-214B	24	Red	25'	1.49

"AMP KING" PRIMARY WIRE



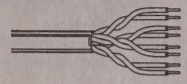
Multi-stranded single conductor primary wire. 99.9% pure electrolytic copper, cabled in a roleplay design for maximum flexibility. Made of a flame retardant compound that is highly resistant to oil, water, alkalies, ozone, grease and diesel fumes. High gloss finish. Surface printed with gauge, description and one-foot markers.

10 GAUGE - 413 Strand roleplay construction
60-383.....100' Red.....$25.95
60-384.....100' Black.....$25.95

8 GAUGE - 665 Strand roleplay construction
60-385.....100' Red.....$36.95
60-386.....100' Black.....$36.95

LOCAL AREA NETWORK CABLES

CATEGORY 3



24 AWG solid bare copper conductors. Unshielded twisted pairs. PVC jacket. Local area network cable.

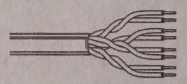
3 PAIR
Residential use Telco

		per ft.	1Kft.
36-432	.15" OD	$.06	$.045

4 PAIR
Data/Modem use

		per ft.	1Kft.
36-433	.17" OD	$.07	$.05

CATEGORY 5



4 pair twisted. 24 AWG solid bare copper center. Local area network UTP Category 5, 100 ohm.

Gray PVC Jacket

		per ft.	1Kft.
36-248	.18" OD	$.12	$.08

Blue PVC Jacket

		per ft.	1Kft.
36-434	.18" OD	$.12	$.08

CATEGORY 5 Plenum

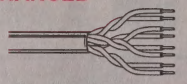
Blue polymer alloy jacket
Teflon® FEP insulation

		per ft.	1Kft.
36-249	.17" OD	$.25	$.21

• CAT 5 ENHANCED •

- **Unofficial CAT 6**
- **The NEW standard in high performance LAN cable**
- **Tested up to 350 MHz**
- **4 pair twisted, 4 AWG solid bare copper center**

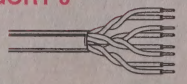
CATEGORY 5 ENHANCED "CATEGORY 6"



PVC Jacket

		per ft.	1Kft.
36-430	.18" OD	$.15	$.11

CATEGORY 5 ENHANCED PLENUM "CATEGORY 6"

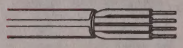


Polymer alloy jacket
Teflon® FEP insulation

		per ft.	1Kft.
36-431	.17" OD	$.29	$.25

FIRE ALARM SYSTEMS, INDUSTRIAL CONTROL SYSTEM CABLES

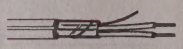
UNSHIELDED MULTI-CONDUCTOR, PVC JACKET



FLP Non-Plenum
Solid Conductor
Power Limited Circuit Cable

Part#	No. of Cond.	AWG	Nom. O.D.	per ft.	1Kft.
36-410	2	18	.160	$.09	$.075
36-411	2	16	.182	.10	.08
36-412	2	14	.225	.18	.15
36-413	4	18	.185	.12	.10
36-414	4	16	.212	.18	.15
36-415	4	14	.263	.35	.25

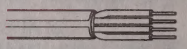
ALUMINUM SHIELDED MULTI-CONDUCTOR, PVC JACKET



FLP Non-Plenum
Solid Conductor
Power Limited Circuit Cable

Part#	No. of Cond.	AWG	Nom. O.D.	per ft.	1Kft.
36-416	2	18	.165	$.11	$.09
36-417	2	16	.190	.15	.12
36-418	2	14	.230	.19	.16
36-419	4	16	.220	.23	.19
36-420	4	14	.270	.42	.35

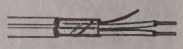
UNSHIELDED MULTI-CONDUCTOR



FPLP Plenum
Solid Conductor

Part#	No. of Cond.	AWG	Nom. O.D.	per ft.	1Kft.
36-421	2	18	.145	$.10	$.085
36-422	2	16	.165	.13	.11
36-423	2	14	.205	.23	.19
36-424	4	18	.170	.17	.14
36-425	4	16	.195	.24	.20

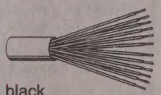
ALUMINUM SHIELDED MULTI-CONDUCTOR



FPLP Plenum
Solid Conductor

Part#	No. of Cond.	AWG	Nom. O.D.	per ft.	1Kft.
36-426	2	18	.155	$.12	$.10
36-427	2	16	.185	.17	.15
36-428	2	14	.215	.28	.23
36-429	4	18	.180	.20	.17

12 CONDUCTOR ROUND CABLE

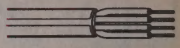


12 conductor stranded,
PVC insulated, unshielded black
PVC jacket (.025" OD). Black, red, brown, orange, yellow, green, blue, purple, gray, white, brown and taupe.

60-219.....24ft long.....$3.50

SECURITY, SOUND, AUDIO, BROADCAST, INSTRUMENTATION and CONTROL CABLES

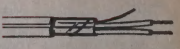
UNSHIELDED MULTI-CONDUCTOR, PVC JACKET



CM Non-Plenum

Part#	No. of Cond.	AWG	Cond. Strand	Nom. O.D.	per ft.	1Kft.
36-379	2	22	7/30	.164	$.05	$.04
36-380	2	18	16/30	.218	.09	.075
36-381	2	16	26/30	.224	.12	.10
36-382	2	14	41/30	.272	.22	.18
36-383	2	12	65/30	.310	.25	.21
36-384	3	12	65/30	.332	.38	.32
36-385	4	22	7/30	.172	.075	.06
36-386	4	18	16/30	.250	.16	.13
36-387	4	16	26/30	.282	.25	.21
36-388	4	14	41/30	.320	.65	.55
36-389	6	22	7/30	.185	.12	.10
36-390	8	22	7/30	.214	.16	.13
36-391	10	22	7/30	.230	.19	.16
36-392	12	22	7/30	.264	.24	.20

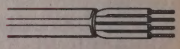
ALUMINUM SHIELDED MULTI-CONDUCTOR, PVC JACKET



CM Non-Plenum

Part#	No. of Cond.	AWG	Cond. Strand	Nom. O.D.	per ft.	1Kft.
36-393	2	22	7/30	.168	$.08	$.07
36-394	2	20	7/28	.183	.10	.09
36-395	2	18	16/30	.197	.12	.10
36-396	2	16	26/30	.227	.21	.18
36-397	2	14	41/30	.279	.28	.23
36-398	4	22	7/30	.193	.11	.09
36-399	4	20	7/28	.212	.20	.17
36-400	4	18	16/30	.229	.19	.16
36-401	6	22	7/30	.230	.14	.11

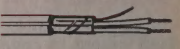
UNSHIELDED MULTI-CONDUCTOR



CMP Plenum

Part#	No. of Cond.	AWG	Cond. Strand	Nom. O.D.	per ft.	1Kft.
36-402	2	18	16/30	.140	$.11	$.09
36-403	2	16	26/30	.170	.19	.16
36-404	4	18	16/30	.165	.11	.09
36-405	4	16	26/30	.205	.30	.25

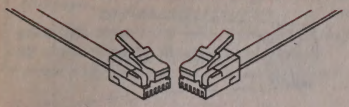
ALUMINUM SHIELDED MULTI-CONDUCTOR



CMP Plenum

Part#	No. of Cond.	AWG	Cond. Strand	Nom. O.D.	per ft.	1Kft.
36-406	2	18	16/30	.155	$.14	$.11
36-407	2	16	26/30	.185	.21	.18
36-408	4	18	16/30	.180	.23	.19
36-409	4	16	26/30	.215	.35	.30

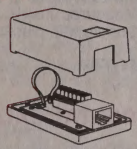
CATEGORY 5 PATCH CORDS COLORED CABLE ASSEMBLY



Organize network panels with color coded patch cords. UTP 24 AWG x 4p stranded, stranded copper conductors, PE insulation, PVC jacket with two RJ-45 (8P8C) plugs.

Part#	Color	Length	Price
56-456	Gray	3ft	$1.45
56-457	Gray	7ft	2.15
56-458	Gray	25ft	5.75
56-574	Blue	3ft	1.45
56-575	Blue	7ft	2.15
56-576	Blue	25ft	5.75
56-577	Green	3ft	1.45
56-578	Green	7ft	2.15
56-580	Red	3ft	1.45
56-581	Red	7ft	2.15
56-582	Red	25ft	5.75
56-583	Yellow	3ft	1.45
56-584	Yellow	7ft	2.15
56-585	Yellow	25ft	5.75

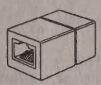
SURFACE MOUNT JACK CATEGORY 5



8 contact
110 type punch down
30 Micon gold plating
Accepts 22 to 28 AWG wire.

56-454.....Single Jack.....$5.99
56-455.....Dual Jack.....$8.49

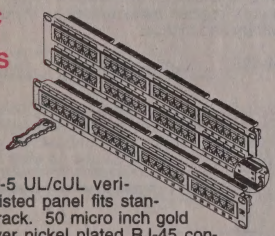
CATEGORY 5 MODULAR COUPLER



Female to female RJ-45

56-564.....$6.75

110-IDC PATCH PANELS

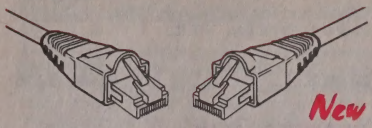


Category-5 UL/cUL verified and listed panel fits standard 19" rack. 50 micro inch gold plating over nickel plated RJ-45 contacts. Conforms to FCC-68.5 requirements. EIA/TIA T568B (AT&T-258A) wiring high grade standard. Black powder coated 16 AWG rolled edge steel. High reliability printed circuit board design. 110 termination 22-26 AWG tin-lead contact. UL94V-0 black ABS modular jack housing. Beryllium-copper modular jack contacts.

24-port 110-IDC patch panel
1 x EIA unit 19"(W) x 1-3/4"(H)
56-775.....$109.95

48-port 110-IDC patch panel
2 x EIA unit 19"(W) x 3-1/2"(H)
56-776.....$209.95

ENHANCED CAT 5 HIGH-SPEED 350 MHz UTP PATCH CABLE

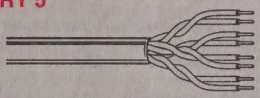


New

Enhanced Category 5 patch cables will accomodate speeds up to 350 MHz. UL certified to meet all Cat 5 standards, drastically reduce both impedance and structural return loss (SRL) compared to standard 100 MHz wire. Color grey.

20-243.....3 ft.....$2.99
20-244.....7 ft.....$4.99
20-245.....25 ft.....$7.99
20-246.....50 ft.....$16.95
20-247.....100 ft.....$29.95

CATEGORY 5



4 pair twisted. 24 AWG solid bare copper center. Local area network UTP Category 5, 100 ohm.

Gray PVC Jacket

		per ft.	1Kft.
36-248	.18" OD	$.12	$.08

Blue PVC Jacket

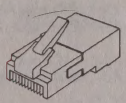
		per ft.	1Kft.
36-434	.18" OD	$.12	$.08

CATEGORY 5 *Plenum*

Blue polymer alloy jacket
Teflon® FEP insulation

		per ft.	1Kft.
36-249	.17" OD	$.25	$.21

CATEGORY 5 SHIELDED MODULAR CRIMP PLUGS



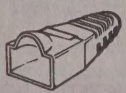
8 contact RJ-45
For round solid cable.

56-452.....$1.40

8 contact RJ-45
For round stranded cable

56-453.....$1.25

COLOR CODED STRAIN RELIEFS

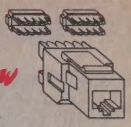


Color coded flexible boots for RJ-45 plugs have a snagless design. Boot must be installed before plugs are crimped to the cable.

New

20-248.....Red.....$ .19
20-249.....Blue.....$ .19
20-250.....Green.....$ .19
20-251.....Yellow.....$ .19
20-252.....Orange.....$ .19
20-253.....Black.....$ .19

CATEGORY 5 KEYSTONE JACKS

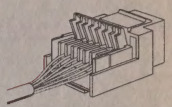


110 type punch down.
Modular RJ-45
(8 x 8) jacks for data networks.

New

20-236.....Ivory.....$4.45
20-237.....Red.....$4.45
20-238.....Blue.....$4.45
20-239.....Green.....$4.45
20-240.....White.....$4.45
20-241.....Yellow.....$4.45
20-242.....Grey.....$4.45
56-469.....Black.....$4.45

KEYSTONE JACK CATEGORY 5

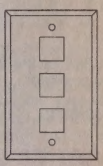


No Tool Required

NO PUNCH DOWN REQUIRED!
8 position, 8 wire. Will accept 2, 3 or 4 pair wire. For use with T568A, or T568B. IDC type. Keyed snap in mount.

56-570.....Gray.....$4.99
56-591.....Ivory.....$4.99
56-592.....White.....$4.99

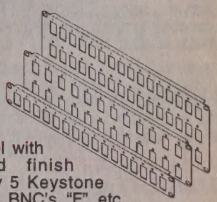
KEYSTONE WALL PLATE



Keystone ivory plastic wall plates fit standard duplex electrical box. Hardware included. Accepts keystone jacks sold separately below.

56-465.....1 cavity plate.....$1.25
56-466.....3 cavity plate.....$1.25
56-467.....6 cavity plate.....$1.40

BLANK MODULAR PATCH PANEL



Heavy steel panel with black anodized finish accepts category 5 Keystone type jacks, coaxial, BNC's, "F", etc.

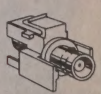
56-561.....16 Port.....$12.25
56-562.....24 Port.....$14.95
56-563.....48 Port.....$19.95

INSERTS FOR ABOVE WALL PLATES

BLANK INSERTS

Ivory
56-468.....$ .25

BNC BULKHEAD (Female)



Ivory plate with
double female BNC.

56-470.....$3.99

KESTER "44" ROSIN CORE SOLDER

Specificaliy designed for electronic and electrical work. Fast acting instant wetting, non-conductive and non-corrosive flux for fast soldering and a strong lasting bond. 1 lb rolls.

Part#	Tin/Lead	Dia	Gauge	(1-3)	(4-up)
46-120	63/37	.020"	25	$13.25	$12.75
46-123	60/40	.031"	21	8.99	8.49
46-141	63/37	.031"	21	9.25	8.75
46-142	60/40	.050"	18	8.95	8.49
46-134	60/40	.062"	16	8.25	7.75

KESTER POCKET PACK®

Convenient pencil-sized solder dispenser. Solder feeds through the plastic dispenser tube. Pocket clip attached. 60/40, .031", .5 oz resin flux solder.

	(1-9)	(10-Up)
83-4000	$ .99	$ .89

KESTER KWIK-DRAW®

Ideal for the tool box. 60/40, .05", 1.3 oz resin flux solder.

	(1-9)	(10-Up)
83-0000	$1.45	$1.25

KESTER 331 ORGANIC FLUX CORE SOLDER

For use with difficult metals like copper, nickel and brass. High heat stability. Organic core produces less smoke and odor than rosin flux. Water soluble, .031" dia, 1 lb roll.

	(1-9)	(10-Up)
83-6403	$10.89	$9.75

KESTER 245 LOW RESIDUE CORE SOLDER

Designed for electrical and electronic work. Ideal for applications where cleaning cannot be performed. Completely non-corrosive and non-conductive flux residue. High mobility and fast spreading action make soldering faster than ever. .031" dia, 1 lb roll.

	(1-9)	(10-Up)
83-8800	$10.89	$9.75

ELECTRONIC SILVER SOLDER

62% tin, 36% lead, 2% silver alloy with a rosin flux core. For soldering small silver coated surface mount components to PC boards. .02" dia, .35oz.

	(1-9)	(10-Up)
83-0415	$ .99	$ .85

KESTER TINNING BLOCK

Cleans and tins soldering iron tips in one easy motion. 1/2 lb.

	(1-9)	(10-Up)
83-0005	$2.49	$2.25

KESTER SP44 ROSIN PASTE FLUX

A highly active non-corrosive flux with excellent wetting action. Specifically for electronic applications. Permits soldering of difficult metals such as brass or nickel. Non-corrosive and non-conductive.

	(1-9)	(10-Up)
83-0144	$1.09	$ .95

KESTER SP30 ACID PASTE FLUX

All purpose flux for metal repair soldering. Specifically designed for where liquid fluxes may be hazardous. 2 oz.

	(1-9)	(10-Up)
83-0001	$1.09	$ .95

5-CORE FINE GAUGE SOLDER

Mfg. - ERSIN MULTICORE
63% tin/37% lead, rosin core
The flux is peripherally arranged for fast action and flow. Wetting is fast, complete and uniform.

.01" diameter, 32 AWG
80-275.....1/2 lb roll.....$7.95

SOLDER

Rosin 1lb Core

21 AWG
46-127.....60/40, .031".....$6.95

Mfg. - ALPHA
46-148.....60/40, .032".....$6.95

LOW RESIDUE CORE SOLDER

Mfg. - ERSIN MULTICORE
.062", 16 AWG, 1 lb spool
63% tin / 37% lead
Non-corrosive formula with negligible residues. Ideal for applications where cleaning cannot be performed. Completely non-corrosive and non-conductive flux.

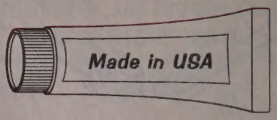
46-149.....$8.99

KESTER SOLDER

Rosin core
60% tin / 40% lead
1 lb spool

Part#	Dia	Gauge	Price
46-147	.031"	21	$8.49
46-124	.025"		9.99
46-122	.020"	25	10.99

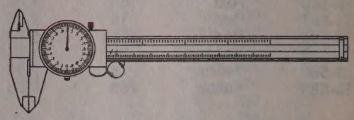
NON SILICONE HEAT SINK COMPOUND



Mfg. - TRIBOLOGY
For industrial heat transfer and thermal conductivity applications. Pasty consistency allows for easy application; insures rapid and efficient thermal conductivity and has excellent heat dissipation along with "no creep" properties. Compatible with plastic and metal components.

16-134.....10 oz tube.....$17.95
16-135.....5 lb jar.....$79.95

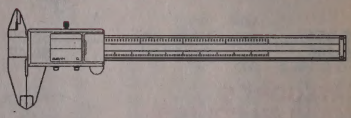
DUAL DIAL CALIPER



Measures in a range of 0-6" or 0-15cm. Measures inside or outside. Stainless steel. Comes with plastic case.

54-176.....$29.95

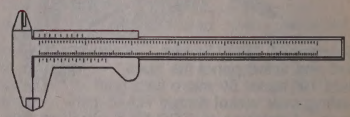
DIGITAL CALIPER LCD



High precision caliper measures in either inches or millimeters from 0 to 6 inches or 0-150mm. Set any point to "0"; measures deviation. Five-digit LCD readout. Stainless steel with precision ground lapped measuring surface and epoxy embedded linear scale to ensure precise measurement. Includes case, battery and manual.

54-185.....$75.95

PLASTIC CALIPERS



Measures up to 6" in 1/16" increments, and 150mm in 1mm increments. Includes depth guide. Large numbers make it easy to read.

54-115.....$1.75

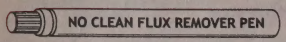
DESOLDERING BRAID

.1" wide. Copper braid

46-130.....5ft. Spool.....$ .95

CircuitWorks® brand complete line of quick drying and easily applied repair/prototype tools for precision repair and prototyping. Coatings air dry in minutes at room temperature.

FLUX REMOVER PENS



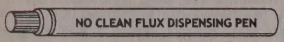
The pen for precise removal of flux from printed circuit boards. • Completely removes flux in seconds • Spot cleans tight tolerance areas on circuit boards • Marker dispenser provides controlled and exact application • Dries fast

No Clean
CW9100.....9 gram.....**$5.49**

Rosin
CW9200.....8 gram.....**$5.25**

Water Soluble
CW9300.....8 gram.....**$5.25**

FLUX DISPENSING PENS



The pen for applying flux with precision and control. • Chisel tip marker provides exact delivery of flux to surface • Easily removed with appropriate Flux Remover • Pen or Flux-Off® flux remover

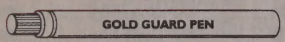
No Clean Flux Dispensing Pen:
• Applies a patented noncorrosive, halide free, organic no-clean flux • Flux meets Bellcore TR-NWT-000078 and IPC SF-818 for surface insulation resistance

CW8100.....9 gram.....**$4.35**

Rosin Flux Dispensing Pen:
• Applies a noncorrosive Type R flux
• Flux meets MIL-F-14256 E+F Type R and RMA

CW8200.....9 gram.....**$4.25**

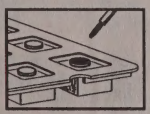
GOLD GUARD PEN



Cleans and leaves protective lubricant in one step • Extends the life of noble metal contacts • Chisel tip marker for exact delivery of solvent to surface • Safe on most plastics.

CW7400.....8.5 gram.....**$6.95**

RUBBER KEYPAD REPAIR KIT



Restores conductivity to worn carbon contacts by applying a permanent conductive coating directly over keypad contacts. Repairs tested to a half million keystrokes. Great for rubber button contacts on telephones, TV/VCR remotes, keyboards and more.

Over 50 repairs
CW2605.....3 gram.....**$7.49**

Over 200 repairs
CW2610.....10 gram.....**$19.95**

CONDUCTIVE PEN

Pen dispenser which draws highly conductive silver traces, jumpers and shielding with precision and control. • Quickly creates conductive silver traces without the need for soldering • Valved pen tip for easy application • Can be soldered at low temperatures • Choice of Micro Tip for fine lines or Standard Tip for wider lines

Micro Tip
CW2200MTP.....8.5 gram.....**$9.95**

Standard Tip
CW2200STP.....8.5 gram.....**$9.95**

OVERCOAT PEN

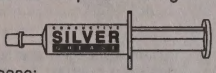
Pen dispenser which applies a tough protective conformal coating. • Protects conductive pen (CW2200) traces • Repairs permanent solder mask • Insulates against shorting and arcing • Protects against abrasion and moisture • Helps prevent static discharge problems on sensitive circuits

Clear coating
CW3300C.....4.9 gram.....**$9.25**

Green coating
CW3300G.....4.9 gram.....**$9.25**

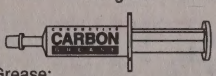
CONDUCTIVE GREASE

Syringe grease dispenser which provides superior electrical and thermal conductivity, lubrication and protection. • Effectively lubricates metal, rubber and plastic • Protects against moisture and corrosion • Thermally stable over a wide temperature range



Silver Grease:
• Conductive lubricant containing pure silver
• Silver grease has maximum electrical and thermal conductivity

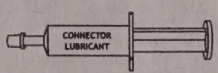
Silver grease blister card syringe
CW7100.....6.5 gram.....**$10.75**



Carbon Grease:
• Conductive lubricant containing carbon
• Good conductivity for low power application
• Cost effective alternative

Carbon grease blister card syringe
CW7200.....6.5 gram.....**$6.99**

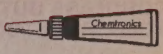
CONNECTOR LUBRICANT



Syringe dispenser for precise application of lubricant to protect metal contacts and connectors. • Provides excellent lubrication properties • Protects against galling of metal contacts • Prevents contact oxidation • Protects from -40°F (-40°C) to +266°F (130°C)

CW7300.....3 gram.....**$6.25**

MICRO BOND III

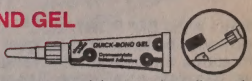


Medium viscosity cyanoacrylate adhesive which quickly bonds nonporous surfaces. • Bonds metals, plastics, glass, ceramics and rubber • Fast setting adhesive • Ideal for smooth, nonporous surfaces • Bonds quickly • Meets Mil-A-46050C Type II, Class I

Special

CTCA3-3.....3 gram.....**$1.35**

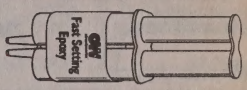
QUICK-BOND GEL



Adhesive kit for easy and instant bonding of rubber, metal and plastic. • Provides strong, instant bonding for rubber, metal and plastic • Ideal for wire tacking • Gel formula is easy to apply and stays in place • Quick-Bond Accelerator insures reliable and instant bonding • Triple distilled cyanoacrylate for longer shelf-life and improved adhesive performance • Adhesive features excellent resistance to impact, weathering and thermal cycling

3 gram adhesive
CW4300.....2 gram accelerator.....**$5.35**

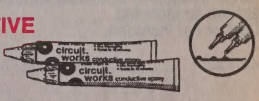
FAST SETTING EPOXY



The dual-syringe epoxy dispenser which creates a strong bond between dissimilar material in minutes • Cures in five minutes • Dual syringe for perfect mix ratio • High strength rigid bond • -50°F to 150°F temperature range.

CTXY5.....31.6 gram.....**$5.99**

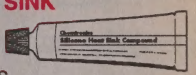
CONDUCTIVE EPOXY



Epoxy for high-strength conductive bonding. • Excellent electrical conductivity • High strength conductive bonding • Repairs defective traces and creates jumpers to board • Quick solderless electronic connections • Two part epoxy - easy 1:1 mixing ratio

CW2400.....2 - 7 gram tubes.....**$14.49**

SILICONE HEAT SINK COMPOUND

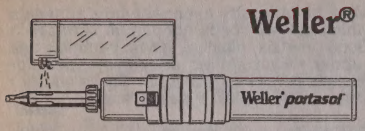


Mfg. - CHEMTRONICS
This non-corrosive grease provides excellent thermal transfer. High performance formula.

16-132.....5 oz tube.....**$10.49**

circuitworks®

CORDLESS BUTANE SOLDERING TOOL



WITH BONUS BUTANE

Mfg. - WELLER® PORTASOL®
No cords, batteries or cartridges!
Features the catalytic converter for powerful yet flameless combustion, flint-sparked ignition in the cap, safety cut-off switch, easily interchangeable tips (C2 1/8" chisel tip included) and easy refilling with standard butane fuel (included). Perfect for the hobbyist.

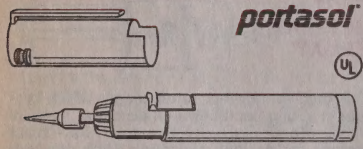
46-152.....$17.95

TIPS

C2.....1/8" Chisel tip.....$6.25
C3.....1/8" Fine tip.....$6.25
C4.....Hot Knife tip.....$6.25

CORDLESS SOLDERING TOOL

portasol®

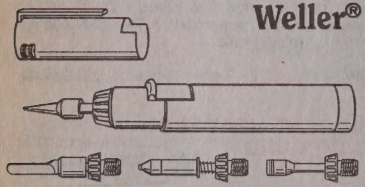


Features built-in igniter. Ready to use in less than 30 seconds for up to 90 minutes of continuous use. Refills take only 20 seconds. 2.4mm tip included.
Butane not included.

46-112.....Soldering Iron.....$26.25

CORDLESS BUTANE SOLDERING TOOL

Weller®

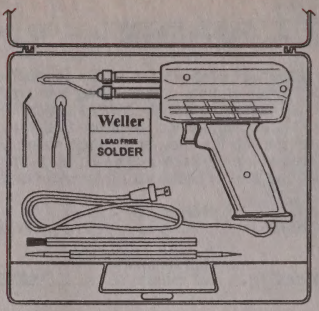


WITH BONUS BUTANE

Mfg. - WELLER® PORTASOL®
Precision portable iron for the craftsman and professional. Refills in less than 20 seconds for up to 90 monutes of continuous use. An adjustable temperature control regulates the power (the equivalent of 10-60 watts). Features a catalytic converetr that provides powerful yet safe flameless combustion. Portasol kit includes the P-1 soldering tool with 10mm iron-plated tip, hot knife, hot blower, blow torch, butane, cleaning sponge and safety stand - all packed neatly in a sturdy plastic case.

46-151.....$44.95

DELUXE SOLDERING GUN KIT

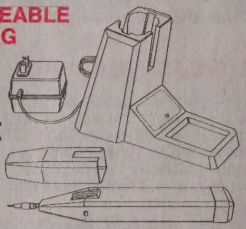


Mfg. - WELLER, #8200PK
8 piece soldering kit contains #8200 all purpose 140/100 watt gun. Gun heats up in 6 seconds. High efficiency tip of pretinned copper. Built-in light illuminates work. Compact, balanced pistol-grip design. Kit also includes soldering tip, sealing tip, cutting tip, flux brush, soldering aid tool, coil of 40/60 rosin-core solder, sturdy plastic carrying case and soldering hints booklet.

8200PK.....Kit.....$34.95
8200.....Gun Only.....$29.95
7135.....2 copper soldering tips.....$3.49

RECHARGEABLE SOLDERING IRON

eazypower

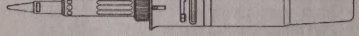


This iron has a built-in work light, and solders up to 100 connections on a charge. It comes with one replaceable tip, charging base, sponge, tip cover, hex key, 110 volt UL listed charging adapter, and has nickel cadmium batteries.

71501.....$24.95
73305.....*REPLACEMENT TIPS*.....$3.99

WSTA3 PYROPEN® KIT

Weller®



Mfg. - Weller
9-1/2" long.
Butane - powered cordless soldering, braising and hot air tool with variable temperature: 392° - 932° F soldering, 1398° F max hot air tip and 2372° F max torch. Kit contains: Iron, 1/8" soldering tip, 7/32" hot air tip, torch ejector, spanner, tool support clip, cleaning sponge and operating manual in a metal carrying case. Runs for 3 hours, ready to solder in 30 seconds. Butane not included.

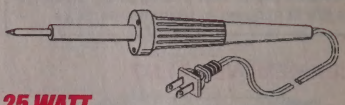
WSTA3.....$94.85

REPLACEMENT TIPS

WPT-1.....Tapered needle (0.5mm).....$10.49
WPT-4.....Chisel point (3.0mm).....$10.49

MARKSMAN SOLDERING IRON

Weller®



25 WATT

Mfg. - Weller
8-1/4" long, 120 VAC input.
Quality featherweight soldering iron featuring stainless steel barrel, nickel plated copper tip and heat & impact resistant handle.

25 WATT WITH 1/8" CONE TIP
750° F (399° C)

SP23.....$9.95

REPLACEMENT TIPS (CARD OF TWO)

MT-1.....1/8" Conical tip.....$3.05
MT-2.....1/8" Screwdriver tip.....$3.05

40 WATT

Mfg. - Weller, 8-1/4" long, 120 VAC input.
Quality featherweight soldering iron featuring stainless steel barrels, nickel plated copper tips and heat & impact resistant handles.

40 WATT WITH 1/4" TIP
900° F (482° C)

SP40.....$13.99

REPLACEMENT TIPS (CARD OF 2)

MT-10.....1/4" Chisel tip.....$5.59

80 WATT

Mfg. - Weller, 9-3/4" long, 120 VAC input.
Quality featherweight soldering iron featuring stainless steel barrels, nickel plated copper tips and heat & impact resistant handles.

80 WATT WITH 3/8" CHISEL TIP
900° F (482° C)

SP80.....$24.95

REPLACEMENT TIPS

MTG-20.....3/8" Chisel tip.....$5.59
MTG-21.....1/4" Chisel tip.....$5.59
MTG-22.....3/8" Cone tip.....$6.25

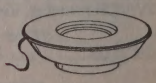
PROFESSIONAL SOLDERING IRON

Weller®

High efficiency 35 watt, grounded soldering iron. Comes with ST3 1/8" screwdriver tip. 120 VAC input.

WP35.....$36.95

DESOLDERING BRAID

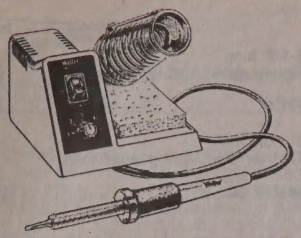


.1" wide. Copper braid

46-130.....*5ft. Spool*.....$ .95

WLC100 VARIABLE OUTPUT SOLDERING STATION

Weller®



Variable power control from 5 to 40 watts. Features: illuminated on/off switch, lightweight 40 watt pencil iron which includes the ST3 interchangeable tip and a cushioned foam grip handle, heating element, safety guard iron holder, and natural sponge tip cleaning pad.

WLC100.....$36.75

REPLACEMENT TIPS

ST1.....1/16" Screwdriver tip.....$3.99
ST3.....1/8" Screwdriver tip.....$3.99
ST5.....1/32" Single flat tip.....$3.99
ST6.....1/32" Screwdriver tip.....$3.99
ST7.....1/32" Conical tip.....$3.99
ST8.....1/16" Narrow SD tip.....$3.99

REPLACEMENT HEATING ELEMENT

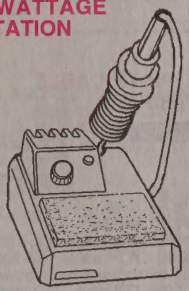
WLC101.....$9.95

REPLACEMENT SPONGE

WCC104.....$ .89

UTCSS DUAL WATTAGE SOLDERING STATION

UNGAR



Economical, dual wattage soldering station lets you choose either 21 watt or 35 watt, whichever temperature is proper for the job. Features: iron holder with ceramic funnel, soldering iron with an anti-strip grip handle for safe handling, a fully grounded tip for protection from static discharge, sponge and tip.

UTCSS.....$54.95

REPLACEMENT TIPS

PL100.....1/16" Precision electronic..... $4.35
PL111.....1/32" Pencil-plated..... $4.35
PL113.....1/8" Chisel-plated.....$4.35
PL114.....1/16" Micro spade-plated.....$4.35

REPLACEMENT IRON

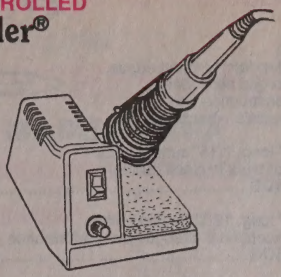
UTCS35.....$18.95

REPLACEMENT SPONGE

UTCS04.....$2.49

WCC100 ELECTRONIC CONTROLLED

Weller®



Compact electronically controlled soldering station has adjustable temperature ranges between 350° F - 850° F. Features: zero voltage circuit which ensures there is no high voltage spikes or magnetic fields present at the soldering tip, a lighted on/off switch, and the ETA 1/16" tip.

WCC100.....$99.95

REPLACEMENT TIPS

ETA.....1/16" Screwdriver tip.....$4.25
ETK.....3/64" Long screwdriver.....$4.25
ETR.....1/16" Narrow screwdriver.....$4.25
ETS.....1/64" Conical tip.....$4.25

REPLACEMENT IRON W/ETA TIP

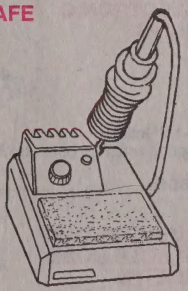
WCC101.....$42.99

REPLACEMENT SPONGE

WCC104.....$ .89

UTC100 ESD SAFE ELECTRONIC CONTROLLED

UNGAR



Electrostatic dissipative (ESD safe) temperature controlled (400° F - 800° F) soldering station features: closed loop temperature control, long-life ceramic heaters, and a macro-size iron with the interchangable PL100 tip. This CMOS safe station is fully grounded and meets MIL-specs. MIL-STP-2000, WS-6536E, MIL-S45743E.

UTC100.....$99.95

REPLACEMENT TIPS

PL100.....1/16" Precision electronic.....$4.35
PL111.....1/32" Pencil plated.....$4.35
PL113.....1/8" Chisel plated.....$4.35
PL114.....1/16" Micro spade-plated.....$4.35

REPLACEMENT IRON

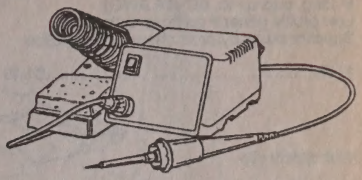
UTC131.....$41.99

REPLACEMENT SPONGE

UTC234.....$2.49

WTCPT CONTROLLED OUTPUT

Weller®



Transformer powered soldering station. Select temperature of 600° F, 700° F or 800° F by changing heat-sensing iron plated tips. Features: lightweight, heat-insulated, low-voltage soldering pencil with the PTA7 tip, detachable stand which contains water reservoir, sponge, iron holder and storage tray, ground tip, and a lighted on/off switch.

WTCPT.....$119.95

600°F	*700°F*	*800°F*	
PTA6	PTA7	PTA8	1/16" Screwdriver
PTK6	PTK7	PTK8	3/64" Long screw
PTR6	PTR7	PTR8	1/16" Narrow screw
PTS6	PTS7	PTS8	1/64" Conical tip

REPLACEMENT TIPS.....$4.79ea

Replacement heater assembly for the TC201P soldering iron.

EC234.....$16.68

REPLACEMENT IRON W/PTA7 TIP

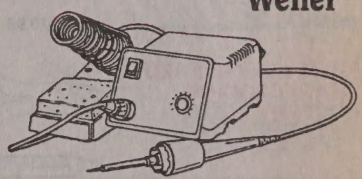
TC201T.....$65.95

REPLACEMENT SPONGE

TC205W.....$1.45

EC1002-2 ESD SAFE ELECTRONIC CONTROLLED

Weller®



Electronically controlled
ESD safe variable soldering station (350° F-850° F). Dial controlled in 10° F steps. Features: 24 VAC isolated power unit used to drive the heating element, 20 watt micro iron, stand, sponge, illuminated on/off switch, and grounded solder tip. EPH101 tip included.

EC1002-2.....$206.99

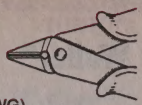
REPLACEMENT TIPS

EPH101.....1/64" Micropoint.....$4.99
EPH106.....1/16" Screwdriver.....$4.99
EPH109.....1/32" Conical tip.....$4.99

REPLACEMENT IRON

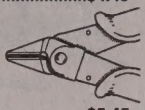
EC1302A.....$80.99

MICRO FLUSH CUT SHEARCUTTERS



5" long, cuts up to .05" (16 AWG)
Low profile general purpose cutter
Superior blade by-pass shear cutting action

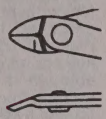
170M.....**$4.49**



With safety clip

175M.....**$5.45**

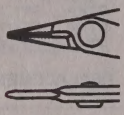
HEAVY DUTY MICRO SHEARCUTTER



5-1/2" long
Cuts up to .08" (12 AWG)
Heavy duty for IC pins, cables and harnesses.

1178M.....**$8.25**

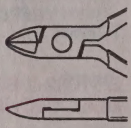
MICRO PLIERS SERRATED & SMOOTH JAWS



5-1/2" long
Thin profile, long reach pliers. Lightweight for maximum control.

378M.....**$7.35**

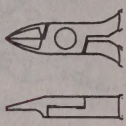
OVAL HEAD DIAGONAL CUTTER



4" long, 7/16" cutting blade
General purpose semi-flush
Cushion grip handles

MS54V.....**$10.95**

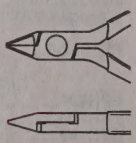
RELIEVED TAPERED HEAD DIAGONAL CUTTER



4" long, 7/16" cutting blade
Full flush cutting. Allows use between closely spaced components. Cushion grip handles.

MS54-3JV.....**$11.95**

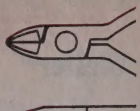
SLIM LINE TAPERED HEAD CUTTER



4" long, 7/16" cutting blade
Flush cutting. Cushion grip handles.

MS54-5JV.....**$11.49**

DIAGONAL PLIER



Standard beveled edges.
Forged alloy steel construction and precision machining.

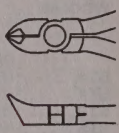
4" long, 7/16" cutting blade
For work in close quarters
54CG.....**$14.49**

5" long, 19/32" cutting blade
Exceptional strength and performance
55CG.....**$14.75**

6" long, 11/16" cutting blade
Exceptional strength and performance
66CG.....**$15.49**

7" long
Exceptional strength and performance
542-7C.....**$14.75**

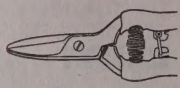
DIAGONAL END CUTTER PLIERS



4" long
Diamond end cutter pliers, angled diagonal end cutter at 29º. For cutting directly above the work area. Perfect for use on closely spaced adjacent components. Cushion grip handles.

GA54-JV.....**$19.95**

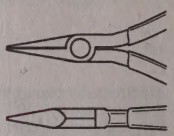
ELECTRONIC SNIPS



6-1/2" long
Spring return to open, latch to hold closed.

86CG.....**$19.95**

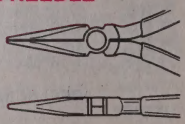
SUBMINIATURE NEEDLE NOSE PLIER'S



4" long
Serrated spring returned jaw. Very fine point for work in confined places. Positive gripping of fine wire or small components.

L4.....**$11.49**

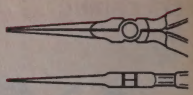
DIAGONAL LONG NEEDLE NOSE PLIERS



5" long
General purpose.
Serrated finely scored jaws. For pick-up and wire forming.

LN54V.....**$13.69**

NEEDLE NOSE PLIERS



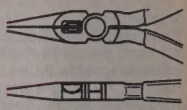
5-1/2" long
Fine serrated, spring return jaw

57CG.....**$15.75**

6" extra long
Thin serrated, spring return jaw

NN777-6C.....**$15.25**

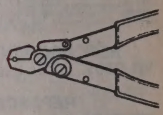
SERRATED JAW PLIERS



6" long
For firm gripping and looping of wire
Features side cutter

51CG.....**$14.15**

DELUXE WIRE STRIPPER

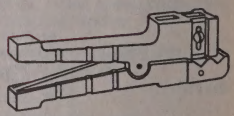


Mfg. - XCELITE
5-1/2" long
Adjustable. Cuts and strips all commonly used insulated wires

102S.....**$8.95**

UTP/STP CABLE STRIPPER

IDEAL

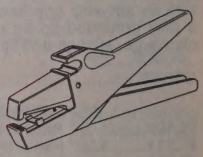


Mfg. - IDEAL
Mfg.# - 45-165
Strips twisted-pair wire, tightly wrapped stranded cable, CATV cable, CB antenna cable, SO, SJ, SJT and other flexible power cords. Strips 3/16" to 5/16" OD wire. Adjustable blades can be set for any depth. Works great on CAT5 cabling.

54-220.....**$17.99**

MAXIM™ WIRE STRIPPER

IDEAL

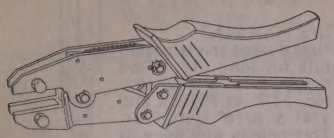


Mfg. - IDEAL
Uses 33 blades within each jaw to self adjust and conform to the cross-sectional profile of different wire sizes and PVC, THHN and THW insulation densities. Self-adjusting blades wires. Strip length is adjustable 1/8" to 3/4" and a built-in wire cutter.

54-222.....**$59.95**

1300 SERIES CRIMP TOOL AND DIES

Weidmüller ⅀ Paladin Tools



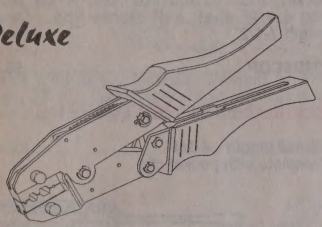
Fully ratcheting frame with built-in safety release. Heat-treated hardened tool steel interchangeable die for long life. Ergonomically design handles for low effort operation and operator comfort. EZI-change die screws for quick and easy die set change.

54-1302	Crimp Tool - Frame Only w/out Dies	$29.95
54-2034	Die Sets - RG/U Cable 58, 59, 62A	16.95
54-2039	Die Sets - RG/U Cable RG8, 213, 216	16.95
54-2046	Die Sets - RG58/174, 50/75 ohm ctr pins	16.95
54-2047	Die Sets - RG59/8281, 50/75 ohm ctr pins	16.95
54-2027	Die Sets - For AMP BNC/TNC RG58	16.95
54-2028	Die Sets - For AMP BNC/TNC RG59/62AU	16.95
54-2303	(2) Die Screws - for PAL 1302-ND	4.99

COAX CRIMPER

Weidmüller ⅀ Paladin Tools

Deluxe



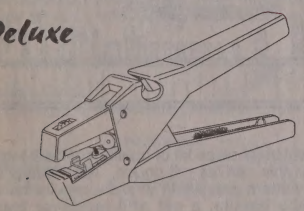
Crimps both BNC and TNC (3 piece) connectors for RG58, 59 and 62AU. Features full ratcheting cycle, manual ratchet release, adjustable crimp tension and heat-treated hardened steel interchangeable dies for long life.

54-1317.....TOOL WITH DIE.....**$39.95**
54-2034.....REPLACEMENT DIE.....**$17.49**

STRIPAX WIRE PROFESSIONAL STRIPPER

Weidmüller ⅀ Paladin Tools

Deluxe



Strips both solid and stranded wire from 28-10 AWG with all grades of PVC insulation. Self adjusting stripping blades designed for precise stripping without damage to the conductors. Built-in cable cutter. Adjustable wire stop. Jaws open automatically.

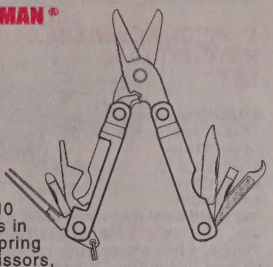
54-1101.....TOOL WITH BLADE.....**$65.95**
54-2131.....REPLACEMENT BLADE.....**$28.25**

The Original

LEATHERMAN®

MADE IN USA

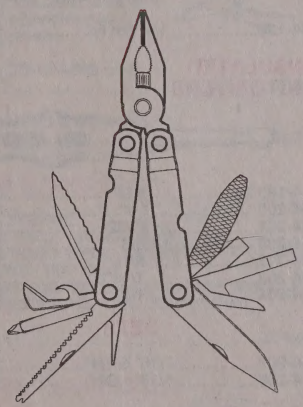
LEATHERMAN® MICRA



2-1/2"
1.75 oz
There is no pocket knife like it. Combines 10 useful tools in one. Spring action scissors, clip point knife, tweezers, nail file, small, medium & flat Phillips screwdriver, bottle opener, ruler(inch/metric) and rotating lanyard attachment comes with split ring for easy use with a key chain. Unsurpassed quality. 25 year Mfg. guarantee. 100% stainless steel. Made in USA.

54-205.....**$18.95**

SUPER LEATHERMAN®

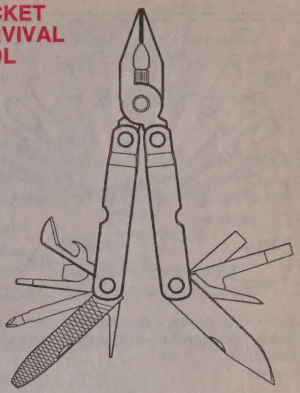


4-1/2" closed, 7" opened, 9 oz
The ultimate compact super tool combines the following 10 tools in one:
- Needle nose pliers, regular pliers
- Clip point knife, serrated knife
- Wood/bone saw and metal/wood file
- 9"/22cm ruler
- Can/bottle opener
- Small, medium and large standard screwdrivers
- Phillips screwdriver
- Electrical crimper, wire crimper, wire cutters
- Awl/punch

25 year Mfg. guarantee. 100% stainless steel. Made in USA. Positive locking blades. Includes sturdy leather belt sheath.

54-206.....**$59.95**

LEATHERMAN® POCKET SURVIVAL TOOL



4" closed, 6-1/4" open
12 essential tools in one includes regular and needle nose pliers, wire cutters, clip point knife, metal/wood file, 8" ruler, can/bottle opener, small, medium and large screwdrivers, phillips screwdriver and AWL punch. 100% stainless steel with optimum grade hardness for each tool. Weighs only 5 ounces. The highest quality most useful multi purpose tool for its size.

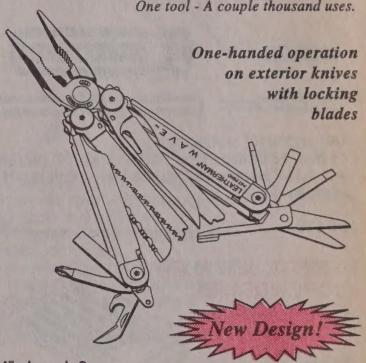
54-163.....**$38.95**

LEATHERMAN® *WAVE*

The next generation multi-purpose tool.

One tool - A couple thousand uses.

One-handed operation on exterior knives with locking blades



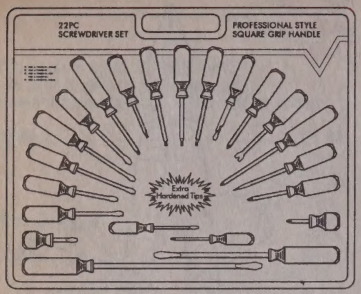
New Design!

4" closed, 8 oz
The *next generation* super tool combines the following 17 tools in one:
- Wire cutters
- Hard wire cutters
- Regular pliers
- Needlenose pliers
- Wire stripper
- Clip-point knife blade
- Wood saw
- Diamond-coated file
- Serrated knife blade
- Phillips screwdriver
- Large screwdriver
- Can / bottle opener
- Lanyard attachment
- Extra-small screwdriver
- Medium screwdriver
- Small screwdriver
- Scissors

25 year Mfg. guarantee. 100% stainless steel. Made in USA. Positive locking blades. Includes sturdy leather belt sheath.

54-237.....**$79.95**

22 PIECE SCREWDRIVER SET

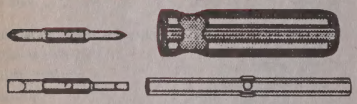


Deluxe 22 piece screwdriver set features square grip handles and extrahardened heat treated tips.
Includes:

Straight blade: 9 x 250mm, 6 x 38mm (stubby), 4 x 100mm, 5 x 100mm, 5 x 150mm and 3.2 x 75mm.
Straight blade with hex bolster:
6 x 150mm, 6 x 100mm and 8 x 200mm.
Straight blade with screw holder:
4 x 100mm.
Phillips: 5 x 75mm(#1), 6 x 38mm (#2 stubby), 3.2 x 75mm(#0).
Phillips with hex bolster:
7 x 150mm(#3 stubby) and 6 x 100mm(#2).
Torx: T-10, T-15, T-20, T-25 and T-30.
Plus a ***Scratch Awl*** and ***Tack Puller.***

54-166.....**$12.95**

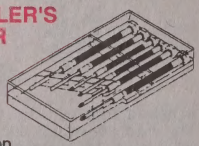
6-IN-1 SCREWDRIVER



1/4" and 5/16" slotted tips
#1 and #2 Phillips type. 5/16" and 1/4" nutdriver. 4-1/4" handle self stores tips. High quality, made in U.S.A.

54-138.....**$5.49**

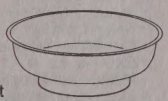
6 PIECE JEWELER'S SCREWDRIVER SET



Features a knurled handle with swivel top.
Set includes 4 slotted screwdrivers (1.0mm, 1.2mm, 1.8mm & 2.4mm) and 2 Phillips-type (#0 & #1) in a plastic case.

54-120.....**$1.75**

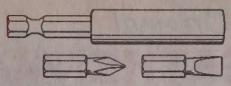
SMALL MAGNETIC PARTS TRAY



6" diameter x 1/2" deep.
Blue steel finish. Attach it on the side of your tool box, underneath your hood, anywhere there is steel. Can be used horizontally, vertically and even upside down. Holds any kind of small iron or steel parts.

54-164.....**$4.95**

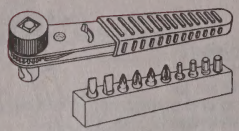
BIT HOLDER WITH TWO BITS



Holds bits and other 1/4" hex accessories. Holder is 2-3/8" long, comes with #1 phillips and 3/16" flat head.

80-262.....**$ .69**

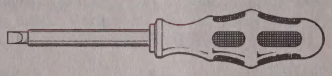
11 PIECE REVERSIBLE RATCHET SET



4-1/2" long
This offset reversible ratchet screwdriver set features hardened steel mechanism with a cushion handle, 10 bits (1" long); 2 straight blade, 4 Phillips, 4 hex and an easy to reach flip lever to reverse tool action. It also includes a labeled carrying rack which firmly holds and stores bits.

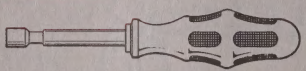
54-165.....**$1.99**

INSULATED SCREWDRIVERS



54-198.....1/4" flat tip.....**$2.99**

INSULATED NUTDRIVERS



54-199	3/16"	**$1.99**
54-200	1/4"	**$1.99**
54-201	11/32"	**$1.99**
54-202	3/8"	**$1.99**
54-212	5/16"	**$1.99**
54-203	7/16"	**$1.99**
54-204	1/2"	**$1.99**

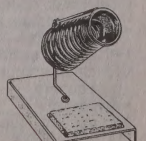
SETS

54-207	3/16" & 1/4"	**$3.99**
54-208	5/16" x 3/8"	**$3.99**

REDUCE THE RISK OF SHOCK UP TO 1Kv

Mfg. - CALTERN
Power tip treated to reduce slipping. Chrome Vanadium insulated shaft rated to 1Kv. High torque ergonomic handle for maximum power.

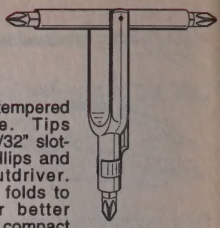
SOLDERING STATION



Heavy duty base and stand with replaceable sponge for cleaning tip.

ASTA1.....**$3.99**

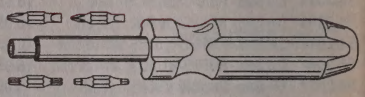
6-IN-1 "T" HANDLE DRIVER



Mfg. - CRESENT
Heat treated and tempered bits for long life. Tips include 3/16" & 9/32" slotted, #1 & #2 Phillips and 1/4" & 5/16" nutdriver. This unique tool folds to "T" position for better leverage, folds to compact storage position with shirt clip for convenience. Made in USA.

CMB6TCDP.....**$4.95**

8-IN-1 SCREWDRIVER



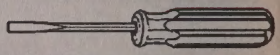
Made in USA

Mfg. - CRESCENT
Chrome/Nickel plated for longer life. Industrial quality tool steel bits. 3/16" and 9/32" slotted tips, #1 and #2 Phillips, #1 and #2 square socket, and T15 and T20 Torx. 4-1/4" handle and 4-1/2" shaft self stores tips. Overall length 7-1/2"

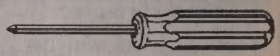
CMB8CDP.....**$6.95**

Xcelite® 2" SCREWDRIVERS

Overall length - 4-1/4"
Complete with pocket clip.

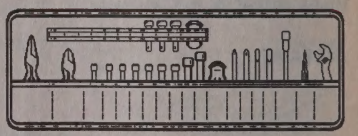


1/8" x 2"
Standard flat blade
R-181.....**$1.75**



#0 x 2"
Phillips
P-12S.....**$1.99**

Xcelite® SERVICE MASTER KIT

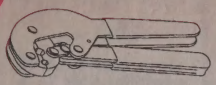


Versatile 23 piece kit of quality Xcelite® tools in a durable canvas roll pouch. Kit includes a 6" thin-pattern adjustable wrench, regular handle, stubby handle, a set of 9 nutdriver blades (3/16" to 1/2"), 3 stubby nutdrivers (1/4", 5/16" & 3/8"), 2 Phillips screwdriver blades, 2 slotted screwdriver blades, 1 reamer, a 7" extension blade, 6" long nose pliers and 5" diagonal pliers. Weight 2-3/4 lbs.

99SM.....**$124.95**

99SMK.....Roll Pouch Only.....**$14.99**

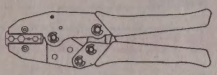
HEAVY DUTY HEX CRIMP TOOL



Crimps connectors for RG-59/U and RG-6/U.

54-100.....**$14.95**

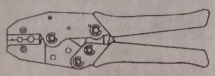
RATCHETING HEX CRIMP TOOL



Ratcheting action holds connector securely while crimping 2 & 3 piece connectors for RG-58/U, RG-59/U, RG-62/U and RG-6/U.

54-152.....**$26.95**

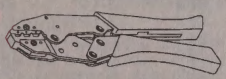
RATCHETING HEX CRIMP TOOL



Crimps 3 piece BNC & TNC connectors for RG-58/U, RG-59/U, RG-62/U, RG58 Thinnet, RG58 Thinnet Teflon, RG58 Teflon and Beldon 8279.

HT230A.....**$24.95**

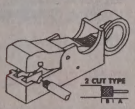
RATCHETING CRIMP TOOL



Crimps insulated solderless terminals for wire gauge 22-10. Ratcheting action ensures a full crimp cycle for positive connections.

54-123.....**$18.95**

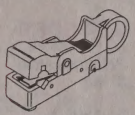
COAXIAL CABLE STRIPPER



Two level cuts in one motion. For standard and teflon RG-58, RG-59 and RG-62.

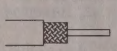
54-168.....**$16.49**

ROTARY COAXIAL CABLE STRIPPER



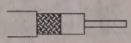
Mfg. - ECLIPSE
Make stripping coax fast, accurate, neat and clean. Attached hex wrench for blade adjustment. Strips in 4, 8 and 12mm lengths. Five year Mfg. warranty.

2-level stripping



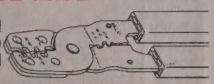
2 blade model
54-215.....For RG58/59/62/6 cable.....**$11.99**

3-level stripping



3 blade model
54-216.....For RG58/59.....**$14.99**

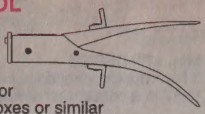
MULTI PURPOSE TOOL



Cuts, strips and crimps for 22-10 AWG insulated and ignition terminals.

Heavy duty - American made
54-109.....**$13.95**

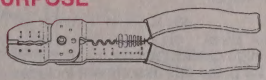
NIBBLING TOOL



Mfg. - PRESTIGE
This cutter is ideal for modifying project boxes or similar items. Nickel plated, cuts up to 18 AWG soft steel, 1/16" aluminum, copper or plastic.

54-148.....**$10.99**

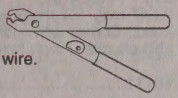
MULTI PURPOSE TOOL



Basic crimp tool for stripping and crimping 22-10 AWG insulated wire and terminals.

54-169.....Economy.....**$1.95**
54-210.....Heavy Duty.....**$4.95**

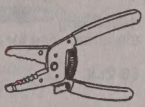
WIRE STRIPPER/CUTTER



Mfg. - GB
Strips/cuts 24-10 AWG wire. Cushion grip handles.

54-230.....**$1.99**

PRECISION WIRE STRIPPER



Plier nose, cutter jaws with soft grip handles and spring return.

Strips 20-10 AWG wire
54-217.....**$7.49**

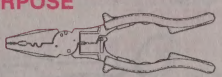
Strips 30-20 AWG wire
54-218.....**$8.75**

WIRE STRIPPERS

Mfg. - ECLIPSE
Strips PVC, teflon and silicone wires. Aluminum die case with red insulated handles for 22-8 AWG wire. Five year Mfg. warranty. Spring return.

54-214.....**$14.49**

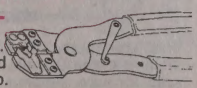
8" MULTI-PURPOSE PLIERS



Strippers 18-10 AWG wire. Crimps 14-10 & 10-6 AWG wires. Cutter/pliers & crimper. Chrome vanadium finish.

54-219.....**$14.49**

HEAVY DUTY MODULAR CRIMPING TOOL

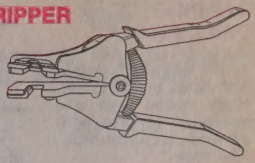


Steel construction. Built-in stripper and cutter. Cushioned grip.

For 6P x 4C or 6P x 6C modular plugs
56-257.....RJ-11 or RJ-12.....**$14.99**

WIRE STRIPPER

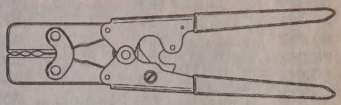
New



Mfg. - CALTERM
Heavy duty wire stripper with preset indexs for wire size 22 to 8 AWG. Spring action for fast shipping along with air cushion grips. Display boxed.

54-234.....**$9.99**

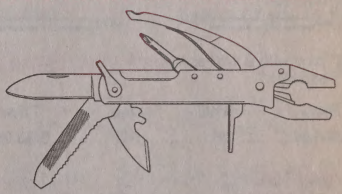
HIGH PRESSURE RATCHETING CRIMP TOOL



Mfg. - CALTERM, #66219 *New*
9" x 2-1/4" x 5/8"
Ratchet clicks down applying even compression for every crimp. Automatic release. Crimps 22 to 10 AWG insulated connectors. Dual pivots compound crimp force for effortless hand pressure. Dip coated handles with special "anti-slip grips.

54-236.....**$9.95**

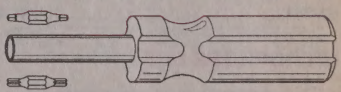
10 FUNCTION SURVIVAL TOOL



5-3/4" closed, 8-1/2" opened, 6.3 oz
Stainless steel multi-purpose tool with 10 different tools that include:
- Regular pliers / Wire cutters
- Clip point knife
- Serrated knife / metal/wood file
- Small & large screwdrivers
- Small Phillips screwdriver
- Can/bottle opener
- Lanyard attachment

54-231.....**$5.99**

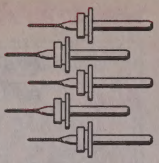
4-IN-1 TORX SCREWDRIVER



Mfg. - THORSEN
Mfg.# - 33826
Precision ground heat treated bits.
T-15, T-20, T-25 and T-30 Torx drivers. Large grip for superior torque transfer. Bits store in double ended shaft. Great for automotive and computer use. 4-1/4" handle and 4-1/2" shaft self stores tips. Overall length 7-1/4".

54-232.....**$4.95**

CARBIDE DRILL BITS

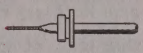


1-1/2" long, 1/8" shank, 3/8" fluted plastic collar. High speed bits are designed for use with printed circuit boards. "Resharps."

Part#	AWG	Size
80-243	#65	.034"
80-244	#61	.039"
80-245	#57	.043"
80-246	#55	.052"
80-247	#53	.058"
80-248	#52	.064"
80-249	#50	.070"
80-250	#49	.072"
80-251	5/64"	.078"
80-252	#44	.085"
80-253	#41	.097"
80-254	#23	.154"
80-255	#1	.200"

Pack of 5 any one size.....$3.25

CARBIDE DRILL BIT ASSORTMENT



1-1/2" long, 1/8" shank, 3/8" fluted collar. 10 assorted sizes.

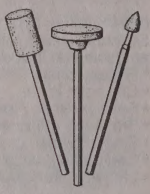
80-241.....pk of 10/$4.95

CARBIDE DRILL BITS

1" long with a 1/8" shank. "Resharps."

Part#	AWG	Size	Price
80-186	#80	.012"	5/$3.25

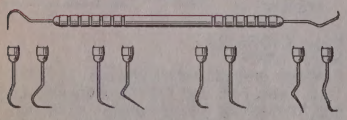
15 PIECE GRINDING STONE ASSORTMENT



A variation of pink and blue compressed aluminum oxide and green carborundum stones. Applications range from shaping, adjusting, slight polishing and finishing of chrome, cobolt, plastics, wood, aluminum, semi and precious stones, porcelain and more. 3/32" diameter shank.

80-264.....1pk/$6.99

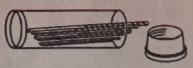
MICROPROBE SET



4 double ended probes about 6" long. Stainless steel

	(1-5)	(6-Up)
MPS	$4.99	$4.75

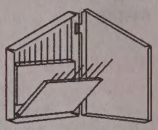
6 ASSORTED DRILL BITS



Mfg. - PROEDGE
6 high quality steel drills ranging in size from 52 to 67 in a convenient storage tube.

58001.....$6.95

CARBON STEEL DRILL



High quality import.
20 piece drill assortment includes sizes from 61 to 80 (.013" to .039). Complete with metal case marked with all the drill sizes.

54-175.....$7.95

PIN VISE

Mfg. - PROEDGE
3-5/8" long. All metal with flat, hexagonal swivel head. Comes with 4 different sized interchangeable chucks. Firmly holds any size drill bits.

58111.....$5.95

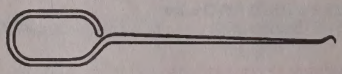
1/8" MANDREL

4-5/8" long
aluminum vise for any standard 1/8" shank.

80-268.....$1.99

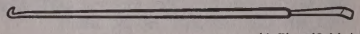
SPRING HOOKS

Pull Ring, Stainless steel
8-3/8" long - 1" dia ring



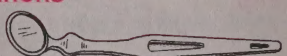
54-111.....$1.75

Stainless steel
Double Ended (Pull Lifter)
7-1/4" long



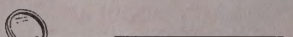
	(1-5)	(6-Up)
54-112	$2.49	$2.25

POCKET INSPECTION MIRRORS



1" diameter mirror with a 5" plastic handle. A super aid for easy inspection of hard to see areas, and close inspection of VCR heads. Made in U.S.A.

MIR-3.....$ .75



This high quality 7/8" diameter mirror has a 6" stainless steel handle with a center serrated area for sure gripping. Ideal for hard to see areas.

MIR-6.....$3.49

MINI 12 PIECE NEEDLE FILE SET

12 piece assortment of 4" sub-mini files in a plastic pouch. Use by hand or lock in a vise. Precision made for wood, metal, or plastic.

54-124.....$2.49

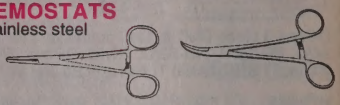
12 PIECE NEEDLE FILE SET

12 piece assortment of 5-1/2" files in a plastic pouch. Use by hand or lock in a vise. Precision made for wood, metal, or plastic.

54-104.....$3.69

HEMOSTATS

Stainless steel



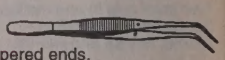
Part#	Length	Type	Price
SF3	3-1/2"	Straight	$1.49
CF3	3-1/2"	Curved	1.49
SF5	5"	Straight	1.49
CF5	5"	Curved	1.49
SF6	6"	Straight	1.75
CF6	6"	Curved	1.75
SF7	7-1/2"	Straight	4.95
SF9	9-1/2"	Straight	9.25

HEMOSTAT KIT

Kit contains one of each of the following: 3-1/2" straight, 3-1/2" curved, 5" straight & 5" curved.

HK.....$4.95

TWEEZERS

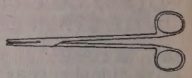


6" - Curved with tapered ends. Serrated Jaws. Stainless steel.

54-133.....$1.49

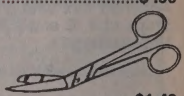
SCISSORS

Stainless steel
3" Iris



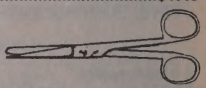
54-130.....$ .99

Stainless steel
4-1/2" Bandage



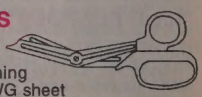
54-131.....$1.49

Stainless steel
5-1/2" Operating



54-132.....$1.49

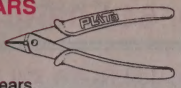
SUPER SHEARS



Heavy duty scissors that will cut everything from paper to 18 AWG sheet metal. Made of stainless steel. O.A. length 7-1/2".

USPC.....$2.49

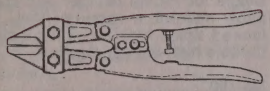
PLATO SHEARS



Model 170M
5" flush-cutter shears.
Cuts up to .04" dia. wire. Cushioned grip handle with spring return.

54-161.....**$3.99**

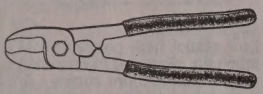
BOLT CUTTER



Mfg. - GARDNER BENDER
8" long, Cleanly cuts 4-40, 6-32, 8-32, 10-24 and10-32 bolt. Cut cooper or aluminum solid or stranded wire up to 10 AWG. Cuts metal cable, nails and rivets up to 3/16" dia.

GC-68.....**$4.95**

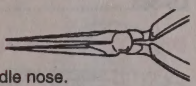
CABLE CUTTER



Mfg. - GARDNER BENDER
Designed to cut copper or aluminum electrical cables. 7-1/2" length for leverage cutting action. Features high strength steel blades and insulated handles. Contoured cutting blades hold cable firmly while cutting.

54-186.....**$4.95**

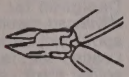
NEEDLE NOSE PLIERS



6" extra thin, large needle nose.

54-147.....**$3.99**

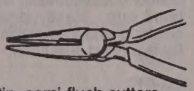
DIAGONAL CUTTERS



4" cushion grip,
with spring return.

	(1-5)	(6-Up)
54-139.....	**$4.25**	**$3.75**

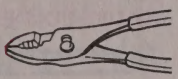
LONG NOSE PLIERS



5" cushion grip,
spring return, serrated tip, semi-flush cutters.

54-141.....**$3.45**

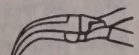
SLIP JOINT PLIER



8-1/2" cushion grip
Drop forged steel

54-160.....**$2.99**

4-1/2" BENT NOSE PLIERS



Features cushioned
grip, smooth jaw and a spring return.

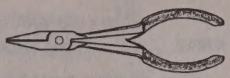
54-158.....**$2.49**

DIAGONAL CUTTERS

5-3/4" length with 7/16" cutting blades.
Drop forged steel, cushioned grip.

54-188.....**$2.99**

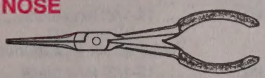
DUCK BILL PLIERS



6-1/8" length with 1-1/16" smooth jaw.
Drop forged steel, cushioned grip. Ideal for bending, shaping, forming and adjusting.

54-187.....**$2.49**

NEEDLE NOSE PLIERS



7-3/8" length with 2-1/8" smooth jaws.
Drop forged steel, cushioned grip.

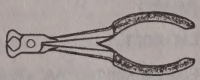
54-189.....**$3.49**

LONG NOSE PLIERS

6-1/4" length with 1/2"
serrated jaw and 1/4" side cutter.
Drop forged steel, cushioned grip.

54-190.....**$2.49**

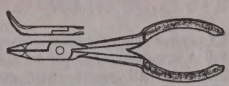
END NIPPER



5-1/2" length with
1/2" wide cutter.
Drop forged, cushioned grip.

54-191.....**$2.49**

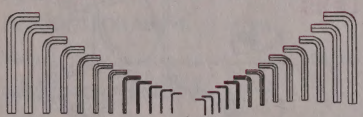
CURVED NOSE PLIERS



6-1/4" length with
1" long curved smooth jaw.

54-192.....**$2.49**

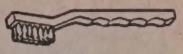
25 PIECE HEX KEY WRENCH SET



This heavy duty set comes in a convenient roll pouch. Standard SAE series include 3/8", 1/4", 3/16", 5/32", 9/64", 1/8", 7/64", 3/32", 5/64", 1/16", .05" and .035" in long arm style. Metric series include 1.27mm, 1.5mm, 2mm, 2.5mm, 3mm, 3.5mm, 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 8mm and 10mm in short arm style.

54-162.....**$5.95**

CLEANING BRUSHES

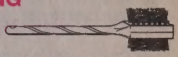


Brush has brass bristles. Perfect for cleaning PC boards and other electronic assemblies.

Plastic handle
75-106.....**$ .65**

Wooden handle
75-111.....**$ .65**

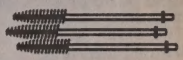
DELUXE CLEANING BRUSH



7" O.A. length
Unique two head design features brass bristles on one side and nylon on the other. The end of the head has two special scraping edges.

75-225.....**$1.25**

CLEANING BRUSH



4" long x approx 1/4" diameter wide. Tapered cleaning brush has nylon bristles.

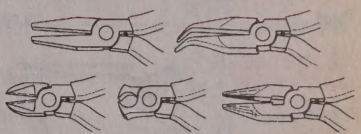
		(1-5)	(6-Up)
80-213.....	pack of 3/	**$ .29**	**$ .25**

KESTER BRUSHES

6" long Kester brushes can apply flux, paste, paint, grease, glue, ink and sealants.

		(1-5)	(6-Up)
54-1000.....	pack of 3/	**$ .49**	**$ .35**

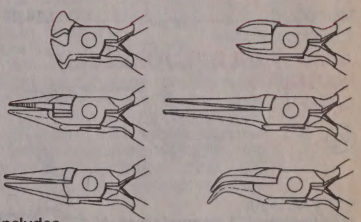
5 PIECE MINIATURE TOOL SET



Includes a 5" flat nose plier, 5" curved nose plier, 5" long nose plier with side cut, 4-1/2" diagonal cutter and 4-1/2" snub nose flush-cutter. All tools feature spring return and cushion-grip handles.

54-153.....**$9.95**

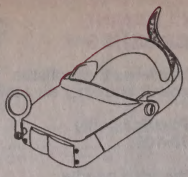
6 PIECE PRECISION PLIER SET



Includes
4" end nipper, 4-1/4" diagonal cutter, 5-3/4" needle nose, 4-3/4" long nose, 4-3/4" flat nose and 4-3/4" bent nose. All tools feature spring return and cushion-grip handles.

54-156.....**$11.95**

BINOCULAR MAGNIFIER

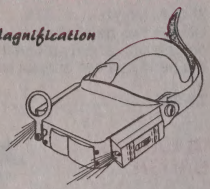


Hands free magnifier with adjustable headband and two levels of magnification: 2.2 @ 10" and by folding down second lens 3.3 @ 5". Can be worn over eyeglasses and flips up when not in use.

10-108.....**$17.85**

LIGHTED BINOCULAR MAGNIFIER

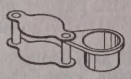
Illumination and Magnification



Lighted hands free magnifier with adjustable head band has 3 levels of magnification. The visor has a built in 1.8X lens with a flip down magnifier for 4.8X plus a pull down eye loupe for EXTRA magnification. Features bright side lights each powered by 2 "AAA" batteries (not included).

10-109.....**$26.95**

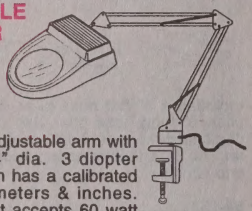
10X POCKET MAGNIFIER



For aid in visual inspection procedures. Provides exceptionally wide angle view and greater magnification than available with standard loupes. 10X power magnification. Double lenses in single frame. Folds into nickel plated case for protection. Comes with case.

H901.....**$8.95**

ADJUSTABLE MAGNIFIER LAMP

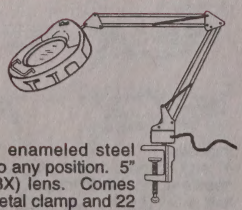


117 VAC input
Features 30" adjustable arm with swivel head 4" dia. 3 diopter (3X) lens which has a calibrated scale in millimeters & inches. Ceramic socket accepts 60 watt bulb max (not included). Comes with mounting bracket.

ML-100.....**$24.95**

ADJUSTABLE FLUORESCENT MAGNIFIER LAMP

UL

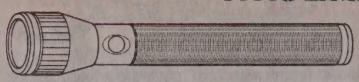


117 VAC input
Extendable 45" enameled steel arm adjustable to any position. 5" dia. 3 diopter (3X) lens. Comes complete with metal clamp and 22 watt circle tube.

ML-200.....**$69.95**

FLASHLIGHTS

MAGLITE



Made of aircraft aluminum, each features adjustable beams and includes a spare bulb in the cap.

Includes two 'AAA' batteries
MMA2.....5" long black.....**$10.95**

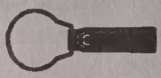
Requires two 'AA' batteries
MINI-BK.....5-3/4" long black.....**$13.95**

Requires two 'D' batteries
S2D.....10" long black.....**$20.95**

Requires four 'D' batteries
S4D.....14-1/2" long black.....**$22.95**

Requires six 'D' batteries
S6D.....19-1/2" long black.....**$26.95**

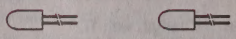
BELT HOLDER



For 'D' cell mag-lites

MAG-HLD.....**$5.95**

REPLACEMENT FLASHLIGHT BULBS



Life of the genuine Mag instrument bulbs is equivalent to 3 or 4 sets of batteries.

For use with two 'AAA' alkaline batteries. (MMA2)

LM3A001.....pk 2/**$2.49**

For use with two 'AA' alkaline batteries. (MINI-BK)

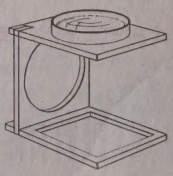
LM2A001.....pk 2/**$2.49**

EYE LOUP MAGNIFIER

5X power magnification. Very useful in speeding the job of assembling small parts, and makes close-up inspection a snap.

10-102.....**$2.69**

FOLDING MAGNIFYING LENS

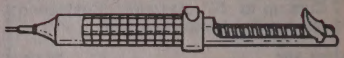


Giant sized folding magnifier features a 4" lens, and stands 7" tall open, and only 1-5/8" folded. O.A. dimensions are 6-1/2" x 5-1/4". It is open on the bottom so you can set it on a book or drawing, and has inch and cm scales. Great for maps, model builders, circuit board repair, etc.

386.....**$4.50**

EDSYN DESOLDERING TOOLS

CHALLENGER SOLDAPULLT®

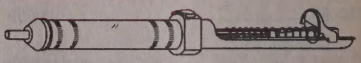


Mfg.# - SS750
External main spring design creates a powerful vacuum stroke. Soft-push cam trigger. Single full stroke plunger and cleaning shaft allow maximum vacuum flow. Cushioned locked tiplet (tip) for soft touch. Made of durable high-impact plastic.

SS-750.....**$7.75**

Replacement tip for above
SRT-751.....**$1.49**

SOLDAPULLT®

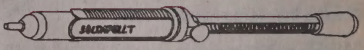


Mfg.# - SS350
Low static, high performance. Metal barrel, teflon tip. External main spring design creates a powerful vacuum stroke. Spring also functions as a static arrestor. Single plunger design allows for full strike, maximum vacuum flow and less friction. Easy to load. Self cleaning.
1/8" I.D. , 9" length

SS-350.....**$9.49**

Replacement tip for above
LS-363.....**$5.95**

DELUXE SOLDAPULLT®



Mfg.# - DS017
Designed for rework or removal of most advanced circuit components. A no-stick teflon spout self cleans with each vacuum cycle. Loaded with features: Push-out tip, internal solder traps, extra large vacuum chamber, internal cleaning shaft and multi-action plunger system. High impact barrel is made of durable nonconductive plastic with a comfort sculptured hand grip. Easily disassembled for internal cleaning and lubrication. Rugged trigger latch for fast hand operation.

DS-017.....**$19.39**

Replacement tip for above
SRT-12.....**$3.25**

DELUXE SOLDER SUCKER

Mfg. - UTICA
Mfg.# - PS300
15"(L) x 3/4"(dia)
Constructed of durable aluminum, with a spring loaded precision metal plunger. A removable reservoir stores solder. The long-life tip unscrews for easy replacement and a 'O' ring on the cap enhances pulling power. Single hand operation.

54-196.....**$8.95**

MASTER MICROTORCH ™ BUTANE POWERED SELF IGNITING

Both models generate a 2,500°F/1,300°C long blue razor sharp flame for hundreds of applications such as solder, desolder, heat shrink, instant portable heat & more.

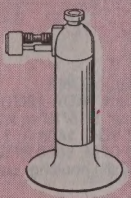
MT10

- Compact palm size
- Built-in self igniting system
- Adjustable flame
- Powered by "Refillable" fuel cell
- 20 minute run time

MT10.....**$18.95**

Dual butane refill for MT10
RC30.....**$3.95**

MT50



- Handheld or tabletop use
- Built-in self igniting system
- Adjustable flame
- Built-in "Refillable" plastic fuel tank
- 2 hour run time
- Perfect for continuous heat applications
- Butane not included

MT50.....**$34.95**

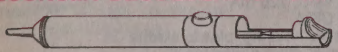
Butane refuel for MT50
16-133.....145g.....**$4.95**

HEX-WIK DESOLDERING BRAID

Width: .045"
Length: 5ft

46-153.....**$ .95**

ECONOMY DESOLDERING PUMP

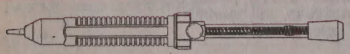


Heavy duty aluminum desoldering pump.

46-131.....**$4.95**

Replacement tip for above
46-136.....**$1.25**

DELUXE SOLDER SUCKER



13-1/2"(L) x 1" dia.
Constructed of durable corrosion resistant plastic with a precision metal plunger, corrosion treated springs and insulated vacuum pulse. Also features regulated return, uniform reset pressure and cushioned shock reduction. Fitted with a replaceable teflon tip.

46-145.....**$7.99**

Replacement tip for above
46-146.....**$1.79**

MASTER HEAT GUN®

8" x 5.25" x 9.5"
120 VAC input,
3-1/2 lbs
Heavy duty, industrial quality. Features universal motor, high air velocity, 3000 FPM average.

500-750°F
14 Amp 1680 watt

HG-501A.....**$91.45**

Replacement heating element for HG-501A
HAS-011K.....**$20.29**

750-1000°F
14.5 Amp 1740 watt

HG-751B.....**$91.45**

Replacement heating element for HG-751B
HAS-043K.....**$20.29**

ATTACHMENTS FOR MASTER HEAT GUN

Shrink attachment for tubing up to 3/4" OD

A-160-HG.....**$11.59**

Shrink attachment for tubing 3/4" to 2" OD

A-170-HG.....**$13.85**

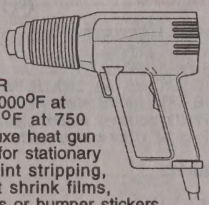
2-1/4" Spreader attachment

51543.....**$8.99**

7/8" Reducer attachment

51544.....**$8.99**

DELUXE HEAT GUN



Mfg. - EASYPOWER
Dual temperature 1000°F at 1500 watt or 650°F at 750 watt. 2 speed deluxe heat gun with built-in stand for stationary use. Ideal for paint stripping, quick drying, heat shrink films, removing tile, labels or bumper stickers.
120 VAC/1500W/60 Hz

72102.....**$29.95**

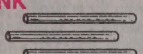
REDUCER FOR ABOVE

79211.....**$4.79**

REFLECTOR FOR ABOVE

79212.....**$4.79**

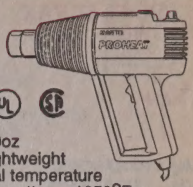
20 PIECE HEAT SHRINK ASSORTMENT



Black. Shrinks to 50% of its original diameter. Lengths range from 1-3/4" to 6" and diameters include 1/16", 3/32", 1/8", 1/4", 1/2" & 3/4".

33-128.....1 pk/**$1.25**

PROHEAT® HEAT GUN



Mfg. - MASTER
Mfg.# - PH-1100
8.25" x 3" x 7.3"
120 VAC input, 1lb 10oz
The latest compact lightweight heat gun features dual temperature settings of 570°F 750 watts, or 1050°F 1500 watts, with an airflow of 15 CFM at 3650 FPM. Lexan® housing for high impact durability.

PH-1100.....**$69.95**

Replacement heating element for PH-1100
35004.....**$30.95**

VARITEMP PROHEAT® HEAT GUN

Mfg. - MASTER
Mfg.# - PH-1200
8.25" x 3" x 7.3"
120 VAC input, 1lb 10oz
Features an infinitely variable temperature control from ambient to 1050°F (1500 watts max). The knob and knob shaft remove after temperature selection for a temper-proof temperature "lock-in" feature.

PH-1200.....**$124.95**

Replacement heating element for PH-1200
35031.....**$26.95**

ATTACHMENTS FOR PROHEAT® HEAT GUN

Shrink Attachment

35017.....**$11.45**

Spreader Attachment

35016.....**$16.49**

Reducer Attachment. *For use w/PH-1200 only

50379.....**$18.25**

DUAL TEMPERATURE HEAT GUN

Mfg. - UNGAR
Mfg.# - 1095
Dual temperature 1200°F and 790°F. Flameless heat. Easy to use. Strips paint, loosens floor tile, adhesives, putty, cures epoxy, thaw frozen pipes and more. Rugged, high impact, heat resistant polymer housing combination hanging ring and support for built-in stand. 120 VAC input. One year Mfg. warranty.

1095.....**$46.95**

Reducer for concentrating heat
1080.....**$5.49**

Scrapper for paint stripping
1081.....**$5.49**

Reflector for heat shrink
1082.....**$5.49**

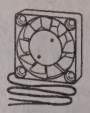
5 VDC FLAT PAK BLOWER

New

Mfg. - PANASONIC
Mfg. - UDQFC3 E14
Size: 34.5mm x 6mm
5 VDC @ 90 mA
Mounts in any position (2 holes 1.68" on ctr)
Metal housing plastic blades (9)
Two 3-1/2" color coded leads
Hydro wave bearing
Shallow, compact radial blowers; air enters through center and exhausts through side port in housing. Excellent for spot cooling.

26-524.....**$6.95**

12 VDC



Mfg. - DENSITRON
Mfg.# - DPF40C12H
Size: 1-9/16" x 3/8"
12 VDC, 160 mA
7 CFM
Plastic housing, plastic blades (9)

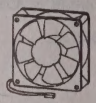
26-479.....**$3.95**

486 CPU HEAT SINK/FAN

Size: 1-3/4" sq. x 7/8"
12 VDC, 1watt. Snap in installation without removing CPU. 6 CFM. Plastic housing, plastic blades. Comes complete with in-line adapters, Cables tap power from your floppy drives. For socket 3 CPU.

26-289.....**$4.95**

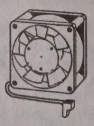
12 VDC



Mfg. - ELINA, #HDF6015L-12LB-1
Size: 2-3/8" x 9/16"
12 VDC, 75 mA, .90 watt
2300 RPM, 30 dB
10 CFM, ball bearing
Plastic housing, plastic blades (7)
1-3/4" color coded leads

26-432.....**$3.95**

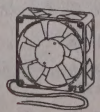
12 VDC



Mfg. - MECHATRONICS
Mfg.# - A6025M12D
Size: 2-3/8"sq x 1"
12 VDC, 110 mA, 16 CFM
Plastic housing, plastic blades (7)
DC brushless, sleeve bearing
5" color coded leads

26-449.....**$3.95**

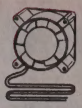
12 VDC SLIM LINE



Mfg. - NMB
Mfg.# - 3108NL-04W-B30
Size: 3-1/8" sq x 3/4"
12 VDC, 190 mA, 30 CFM
Brushless, ball bearing
Plastic housing, plastic blades (7)
Two 12" color coded leads

26-444.....**$5.95**

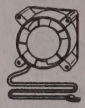
WORLDS SMALLEST FAN



Mfg. - SUNON
Mfg.# - KD0502PFS3
Size: 1"sq x 7/16"
5 VDC, 210mA, 1.4 watt, 3 CFM
Plastic housing, plastic blades (5)
6" color coded leads

26-458.....**$3.49**

12 VDC



Mfg. - SUNON
Mfg.# - KD1204PFS2
Size: 1-9/16"sq x 3/8"
12 VDC, 80 mA, 9 watt
10 CFM
Plastic housing, plastic blades (5)

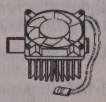
26-481.....**$4.95**

12 VDC

Mfg. - NIDEC
Mfg.# - TA150DC
Size: 1-5/8" sq x 3/8"
12 VDC, 80 mA, .96 watt, 3.5 CFM
Brushless, sleeve bearing
Plastic housing, plastic blades (5)
Two 10" color coded leads

26-360.....**$3.95**

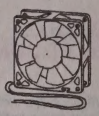
PENTIUM FAN WITH HEAT SINK



Mfg. - EMERTRON
Mfg.# - NX586-022-20
Size: 2"sq x 1-1/4"
12 VDC, 80 mA
Two 6" color coded leads

26-489.....**$3.95**

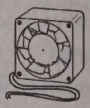
12 VDC



Mfg. - MECHATRONICS
Mfg.# - F6025L
Size: 2-3/8" sq x 1"
12 VDC, 85 mA, 2800 RPM
16 CFM, 24 dB, sleeve bearing
Plastic housing, plastic blades (7)
Two 12" color coded leads.

26-423.....**$3.95**

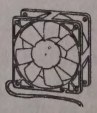
12 VDC



Mfg. - ELINA, #FDC60-12L
Size: 2-3/8" sq x 1"
12 VDC, 95 mA, 1.14 watt
12 CFM, 25 dB, 3000 RPM
Ball bearing
Metal housing, metal blades (7)
Two 12" color coded leads

26-333.....**$3.95**

12 VDC



Mfg. - CP INDUSTRIES
Mfg.# - TC8025B12S
Size: 3-1/8" sq x 15/16"
21 CFM, 12 VDC
95 mA
Plastic housing, plastic blades (7)
Two 4" color coded leads

26-340.....**$5.95**

12 VDC

Mfg. - TOSHIBA
Mfg.# - PFL-3051-4B
Size: 1-13/16" sq. x 3/4"
12 VDC, 70 mA, .8 watt, 6 CFM
Plastic housing, plastic blades (5)
Two 12" color coded leads, brushless

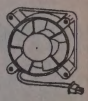
26-272.....**$4.95**

12 VDC BLOWER

Mfg. - NIDEC (GAMMA26)
Mfg.# - A33999-16
Size: 2"sq x 5/8"
12 VDC, 230 mA, 2 watt
4 CFM, brushless
Plastic housing, plastic blades (5)
6" color coded leads

26-519.....**$2.25**

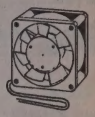
12 VDC



Mfg. - ELINA
Mfg.# - KDA-12051OM
Size: 1-15/16"sq x 3/8" D
12 VDC, 140mA, 1.6 watt
10 CFM, 5000 RPM
Plastic housing, plastic blades (5)

26-490.....**$3.95**

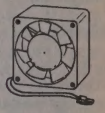
12 VDC



Mfg. - CANNON
Mfg.# - CF60-T311N1D
Size: 2-3/8"sq x 1"
12 VDC, 160mA, 2 watt
16 CFM, 34dB, brushless
Plastic body, plastic blades (7)
Two 12" color coded leads

26-514.....**$2.95**

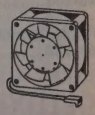
12 VDC



Mfg. - NIDEC
Mfg.# - C32770-55A
Size: 2-3/8" sq x 1"
12 VDC, 120 mA
15 CFM
Plastic housing, plastic blades (7)
Two 5" color coded leads.

26-392.....**$3.95**

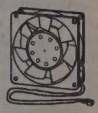
12 VDC



Mfg. - NIDEC, #M33455-16
Size: 2-3/8"sq x 1"
12 VDC, 220 mA, 2.64 watt
20 CFM, 7 blades
Plastic housing, plastic blades
Brushless, ball bearing
3" color coded leads

26-447.....**$4.95**

12 VDC



Mfg. - NMB
Mfg.# - 3110KL-04W-B20
Size: 3-1/8"sq x 1"
12 VDC, 140 mA, 2 watt
29 CFM, 2400 RPM, 25 dB
Plastic housing, plastic blades (7)
Two 12" color coded leads

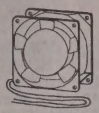
26-472.....**$5.95**

12 VDC

Mfg. - AVANT-GARDE
Mfg.# - AV-825M12S
Size: 3-1/8"sq x 1"
12 VDC, 120mA, 39 CFM
Plastic housing, plastic blades (7)
Two 10" color coded leads.

26-445.....**$5.95**

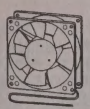
12-28 VDC



Mfg. - PAPST
Mfg.# - 8314
Size: 3-1/8"sq x 1-1/4"
12-28 VDC, 36 dB
32 CFM, ball bearing
Plastic housing, plastic blades
Hook-up via two 12" leads

26-453.....**$4.95**

12 VDC



Mfg. - MECHATRONICS
Mfg.# - E9225E12B
Size: 3-5/8"sq x 1"
12 VDC. 490mA, 6 watt
56 CFM, 3600 RPM, 39dB
Ball bearing, brushless
Plastic housing, plastic blades (7)
Two 12" color coded leads

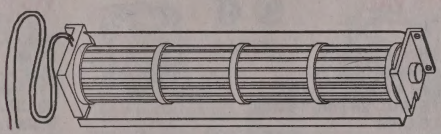
26-512.....**$5.95**

12 VDC

Mfg. - DELTA
Mfg.# - WFB1212M
Size: 4-5/8"sq x 1"
12 VDC, 330mA, 2 watt
72 CFM, 2100 RPM, 34 dB
Plastic housing, plastic blades (7)
Two 10" color coded leads, ball bearing

26-497.....**$8.95**

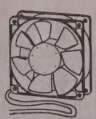
CROSSFLOW FAN



Mfg. - HOSIDEN
9-3/16" x 1-3/4" x 1-3/4"
Operates 12-20 VDC
Excellent for custom cooling of amplifiers through a horizontal slit on mounting board.

26-482.....**$9.95**

24 VDC



Mfg. - NO NOISE
Mfg.# - F8025S24B
Size: 3-1/8" sq x 1"
24 VDC, 50 mA, 1.2 watt
28 CFM
Plastic housing, plastic blades (7)
Two 12" color coded leads

26-427.....**$4.95**

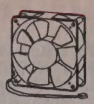
24 VDC

Mfg. - NIDEC, # B33534-65A
Size: 4-5/8"sq x 1-1/2"
24 VDC, 450mA, 10 watt
130 CFM, ball bearing, brushless
Plastic housing, plastic blades (3)
Two 4" color coded leads
Metal grill included

High Speed

26-491.....**$9.95**

12 VDC



Mfg. - ADDA
Mfg.# - AD0812MS-A70GL
Size: 3-1/8"sq x 1"
12 VDC, 150 mA, 31 CFM, brushless
Plastic housing, plastic blades (7)
Two 4" color coded leads

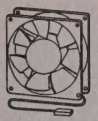
26-417.....**$5.95**

12 VDC TEMPERATURE SENSING FAN

Mfg. - NIDEC, #M33406-16G
Size: 3-1/8" sq x 1"
12 VDC, 290mA, 3.1 watt
43 CFM, ball bearing, 7 blade
Runs maximum speed at 45°C and above. Runs half speed at 25°C and below. Plastic housing, plastic blades. Two 10" color coded leads, a metal fan grill attached.

26-431.....**$7.95**

12 VDC



Mfg. - NMB, #4710NL-04W-B30
Size: 4-5/8"sq x 1"
12 VDC, 320mA, 3 watt
70 CFM, 1900 RPM
Ball bearing, brushless, 36dB
Plastic body, plastic blades (7)
Two 6" wire leads

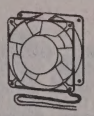
26-510.....**$8.95**

12 VDC TEMPERATURE SENSING FAN

Mfg. - NIDEC
Mfg.# - C33211-71A
Size: 4-5/8"sq x 1-1/2"
12 VDC
Plastic housing, plastic blades (3)
<28°C 1400 RPM, 270mA, 49 CFM
55°C 3200 RPM, 539mA, 112 CFM

26-446.....**$8.95**

24 VDC



Mfg. - MINEBEA
Mfg.# - 3110PL-05W-B30
Size: 3-1/8" sq x 1"
24 VDC, 90 mA, 1.9 watt
30 CFM, 26dB
Plastic housing, plastic blades (5)
Two 12" color coded leads

26-438.....**$4.95**

24 VDC

Mfg. - COMAIR ROTRON
Mfg.# - PD24B6
Size: 6-3/4"dia x 2"
24 VDC, 1 amp
235 CFM, 51 dB
Metal housing, plastic blades (5)
Two 12" color coded leads

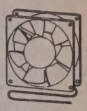
26-516.....**$9.95**

12 VDC

Mfg. - ROTRON
Mfg.# - ST12G6
Size: 3-1/8"sq x 1-1/4"
12 VDC, 120 mA, 1.4 watt
32 CFM
Plastic housing, plastic blades (5)
Two 6" color coded leads.

26-411.....**$4.95**

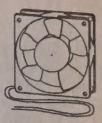
12 VDC



Mfg. - NMB, #3610NL-04W-B40
Size: 3-5/8"sq x 1"
12 VDC, 350mA, 3 watt
48 CFM, 2850 RPM
Ball bearing, brushless
Low noise series
Plastic body, plastic blades (7)
Two 12" color coded leads

26-509.....**$5.95**

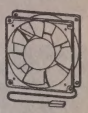
12 VDC



Mfg. - MECHATRONICS
Mfg.# - E1225S12B
Size: 4-5/8"sq x 1"
12 VDC, 100mA, 1.2 watt
44 CFM, 1400 RPM, 44 dB
Plastic housing, plastic blades (5)
Ball bearing, brushless, two 12" color coded leads

26-500.....**$8.95**

12 VDC



Mfg. - GLOBE
Mfg.# - D47-B10A-04W2-000
Size: 4-5/8"sq x 1"
12 VDC, 320mA, 3 watt
55 CFM, 2200 RPM, 33dB
Ball bearing, brushless
Plastic housing, plastic blades (7)
Two 6" color coded leads

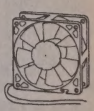
26-513.....**$8.95**

24 VDC

Mfg. - PANASONIC, #FBS-08A24H
Size: 3-1/8"sq x 1"
24 VDC, 200 mA, 2.5 watt
39 CFM, 32 dB
Plastic housing, plastic blades (7)
With detachable metal fan grill
Two 6" color coded leads

26-456.....**$4.95**

24 VDC



Mfg. - NIDEC
Mfg.# - A33104-16
Size: 3-5/8"sq x 1"
24 VDC, 70mA, 2.6 watt
35 CFM, ball bearing
Plastic housing, plastic blades (7)
Two 12" color coded leads

26-459.....**$5.95**

24 VDC

Mfg. - COMAIR ROTRON
Mfg.# - PQ24ROX
Size: 6-3/4"dia x 2"
24 VDC, 1 amp
205 CFM, 49 dB
Metal housing, plastic blades (7)
Therma Pro-V. Four 24" color coded leads

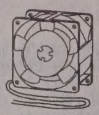
26-499.....**$9.95**

115 VAC FAN

Mfg. - PAPST
Mfg.# - 8500N
Size: 3-1/8"sq x 1-1/2"
115 VAC, 100 mA, 12 watt
36 CFM, 34 dB
Metal housing, metal blades (5)
Two 12" wire leads

26-518.....**$8.95**

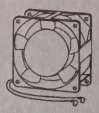
115 VAC



Mfg. - ETRI
Mfg.# - 126LF2182
Size: 3-1/8"sq x 1-1/2"
115 VAC, 100 mA, 8 watt
32 CFM, 3200 RPM, 34 dB
Metal housing, plastic blades (5)
Two 12" color coded leads, sleeve bearing

26-409.....**$9.95**

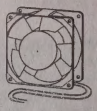
115 VAC



Mfg. - SERVO
Mfg.# - WE2B4-C-939
Size: 3-1/8"sq x 1"
115 VAC, 120mA, 11 watt
30 CFM, 2250 RPM
Metal housing, plastic blades (5)
Two 4-1/2" leads

26-292.....**$9.95**

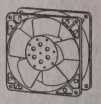
115 VAC



Mfg. -ELINA
Mfg.# - EP092515 HSL
Size: 3-5/8"sq x 1"
115 VAC, 120mA, 12 watt
30 CFM, 2250 RPM, 38 dB
Metal housing, plastic blades (5)
Two 12" leads, sleeve bearing

26-507.....**$9.95**

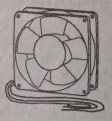
115 VAC



Mfg. - PAPST
Mfg.# - 4600N
Size: 4-5/8"sq x 1-5/8"
115 VAC, 180mA, 18 watt
106 CFM, sleeve bearing
Metal housing, metal blades (5)
Standard terminal hook-up

26-501.....**$12.95**

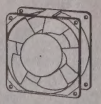
115 VAC



Mfg. - EG&G ROTRON
Mfg.# - SPT682YF
Size: 4-3/4"sq x 1-1/2"
115 VAC, 120mA, 13 watt
97 CFM, 3300 RPM
Metal housing, plastic blades

26-461.....**$11.95**

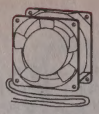
115 VAC



Mfg. - PTI
Mfg.# - A123815LST
Size: 4-5/8"sq x 1-1/2"
115 VAC, 130mA, 12 watt
98 CFM
Metal housing, plastic blades (5)
Standard terminal hook-up

26-523.....**$11.95**

115 VAC SPRITE®



Mfg. - EG & ROTRON
Mfg.# - SUZE7 (030271)
Size: 3-1/8"sq x 1-1/2"
115 VAC, 80 mA, 7 watt
18 CFM, 1950 RPM, 24 dB
Metal housing, plastic blades (5)
12" leads for hook-up, Sleeve bearing

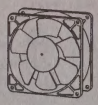
26-302.....**$9.95**

115 VAC

Mfg. - NMB
Mfg.# - 3115FS-12T-B30
Size: 3-1/8"sq x 1-1/2"
115 VAC, 110 mA, 8.5 watt
34 CFM, Ball bearing
Metal housing, plastic blades (5)

26-492.....**$9.95**

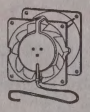
115 VAC



Mfg. - ETRI
Mfg.# - 99XU0182000
Size: 3-5/8" sq x 1"
115 VAC, 105 mA, 9 watt
40 CFM, 3200 RPM, 42 dB
Metal housing, plastic blades (6)
Ball bearing, standard terminal hook-up

26-504.....**$9.95**

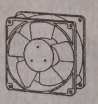
115 VAC



Mfg. - EBM/PAPST
Mfg.# - W2S086-AA07-01
Size: 3-5/8"sq x 1-1/2"
115 VAC, 130 mA, 16 watt
46 CFM, 40 dB
Metal housing, metal blades (9)
Ball bearing, two 11" leads.
Features air exhaust over struts.

26-471.....**$10.95**

115 VAC



Mfg. - HOWARD
Mfg.# - 3-15-3457
Size: 4-5/8"sq x 1-1/2"
115 VAC, 280mA, 19 watt
100 CFM
Metal housing, plastic blades (5)

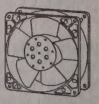
26-503.....**$12.95**

115 VAC

Mfg. - GOULD BRUTE III
Mfg.# - 803-0100
Size: 4-5/8"sq x 1-1/2"
115 VAC, 110mA, 12.8 watt
98 CFM, 3300 RPM
Metal housing, plastic blades (5)
Standard terminal hook-up

26-515.....**$11.95**

115 VAC



Mfg. - PAPST
Mfg.# - 4606N
Size: 4-5/8"sq x 1-1/2"
115 VAC, 20 watt
106 CFM, 51dB, ball bearing
Metal housing, metal blades (5)
Standard terminal hook-up

26-522.....**$12.95**

115 VAC

Mfg. - NIDEC
Mfg.# - A31942-54
Size: 3-1/8"sq x 1-1/2"
115 VAC, 280 mA, 11 watt
32 CFM, Sleeve bearing
12" hook-up wires
Metal housing, plastic blade (7)

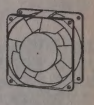
26-484.....**$9.95**

115 VAC SPRITE

Mfg. - COMAIR ROTRON
Mfg.# - SU2E9 (030482)
Size: 3-1/8"sq x 1-1/2"
115 VAC, 80mA, 23 watt
27 CFM, 2750 RPM, 28 dB
Metal housing, plastic blades (5)
Standard terminal hook-up
Sprite reverse flow, sleeve bearing

26-301.....**$9.95**

115 VAC



Mfg. -ELINA
Mfg.# - EP092515 LST
Size: 3-5/8"sq x 1"
115 VAC, 100mA, 10 watt
26 CFM, 1900 RPM, 33 dB
Metal housing, plastic blades (5)
Standard terminal hook-up, sleeve bearing

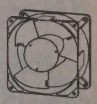
26-506.....**$9.95**

115 VAC FAN

Mfg. - ETRI
Mfg.# - 125XR-2282-010
Size: 4-5/8"sq x 1-1/2"
115 VAC, 200 mA, 16 watt
94 CFM, 2800 RPM, 44 dB
Metal housing, plastic blades (5)
Standard terminal hook-up

26-520.....**$11.95**

115 VAC WHISPER® XL



Mfg. - COMAIR ROTRON
Mfg.# - WX2A1
Size: 4-5/8" sq x 1-1/2"
115 VAC, 60 mA, 6 watt
50 CFM, 31 dB
Metal housing, plastic blades (3)
Standard terminal hook-up

26-406.....**Feather Edge® for low noise**.....**$12.95**

115 VAC MUFFIN XL

Mfg. - COMAIR ROTRON, MX2A3
Size: 4-5/8"sq x 1-1/2"
115 VAC, 180 mA, 15 watt
115 CFM, 50 dB
Metal housing, plastic blades (3)
Feathered edge for low noise
Standard terminal hook-up

26-226.....**$11.95**

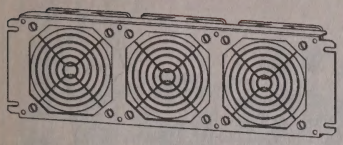
115 VAC

Mfg. - NIDEC
Mfg.# - A30200
Size: 5"sq x 1-1/2"
115 VAC, 270 mA, 21 watt
130 CFM, sleeve bearing
Metal housing, plastic blades (5)
Standard terminal hook-up

26-521.....**$12.95**

115 VAC RACK MOUNT FANS

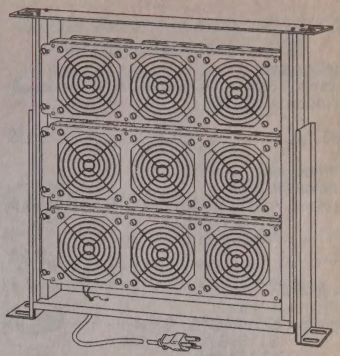
336 CFM



16-1/2" x 5-1/8" x 1-7/8"
16" on mtg centers
Features three 115 VAC ball bearing fans with fan grills on each side. 336 CFM.

26-476.....**$49.95**

FAN TRAY ASSEMBLY

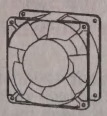


Mfg. - US ROBOTICS
19"sq x 1-3/4"
- Easy installation
- Fits 1-3/4" panel height
- Choice of fan location

Fan assembly includes 9-position fan tray with pre-assembled front panel, a 9-outlet daisy chain cord and 6-foot power cord, adjustable support angles and 9 knock-outs. Each fan provides approximately 112 cfm ventilation and is protected with finger guards on the top and bottom. The tray comes completely assembled and is designed with adjustable rear support brackets for easy installation on mounting rails in standard 19" EIA cabinets.

26-505.....**$149.95**

115 VAC

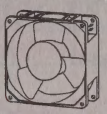


Mfg. - NMB
Mfg.# - 4715MS-12T-B20
Size: 4-5/8"sq x 1-1/2"
115 VAC, 50/60 Hz, 7 watt
67 CFM, 30 dB
Metal housing, plastic blades (5)
Standard terminal hook-up

New

26-525.....**$11.95**

115 VAC MUFFIN



Mfg. - COMAIR ROTRON
Mfg.# - MU2B1
Size: 4-5/8"sq x 1-1/2"
115 VAC, 160mA, 14 watt
105 CFM, Ball bearing

New

26-397.....**$12.95**

220 VAC

Mfg. - IMC
Mfg.# - 36IOPS-23T-B10
Size: 3-5/8" sq. x 1"
230 VAC, 330 mA, 6 watt
21 CFM, ball bearing
Metal housing, plastic blades (5)
Standard terminal hook-up

26-328.....**$9.95**

220 VAC HIGH SPEED FAN

Mfg. - EBM, #W2S115-AA01-46
Size: 5"sq x 1-1/2"
220 VAC, 50/60 Hz, 17 watt
121 CFM, 47 dB
Metal housing, metal blades (7)
Two 6" leads

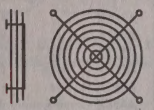
26-414.....**$10.95**

230 VAC

Mfg. - MECHATRONICS
Mfg.# - UF92B23
Size: 3-5/8"sq x 1"
230 VAC, 70 mA, 14 watt
31 CFM, 2900 RPM
Ball bearing, standard terminal hook-up
Metal housing, plastic blades (5)

26-486.....**$9.95**

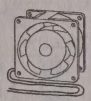
WIRE FAN GRILL



Chrome plated
For 4-5/8" square fans
3/4" stand off fan

26-517.....**$1.25**

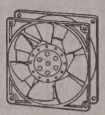
120 VAC



Mfg. - FREDRICK
Mfg.# - FC080B-W3
Size: 3-1/8" sq x 1-1/2"
120 VAC, 120 mA, 9 watt
27 CFM, 50/60 Hz
Metal housing, plastic blades (5)
Ball bearing, two 12" wire hook-up

26-440.....**$9.95**

220 VAC



Mfg. - TOBISHI (PAPST)
Mfg.# - 3650K
Size: 5"sq x 1-1/2"
220 VAC, 15 watt
125 CFM, ball bearing
Metal housing, plastic blades (7)
Standard terminal hook-up

26-462.....**$9.95**

220 VAC

Mfg. - FASCO
Size: 8-1/2" dia. x 4"
Rated 220 VAC, 500 mA
1/35 HP, 90 CFM, 2 speed
Single phase thermally protected
Port inlet: 5-1/4" dia.
Outlet: 2-7/8" x 3-1/4". Centrifugal blower

26-207.....**$12.95**

230 VAC

Mfg. - MECHATRONICS
Mfg.# - UF12B23 BTL
Size: 4-5/8"sq x 1"
230 VAC, 70 mA, 14 watt
74 CFM, 42 dB, 2700 RPM
Ball bearing
Metal housing, plastic blades (5)

26-487.....**$11.95**

WIRE FAN GRILL

Chrome plated

26-177.....2-3/8" sq **$1.25**
26-186.....3-1/8" sq **$1.25**
26-188.....3-5/8" sq **$1.25**
43-109.....4-5/8" sq **$1.25**
26-286.....6" round.....**$2.35**

PLASTIC FAN GRILLS

For 3-1/8" square fan with 2.81" mounting holes.

43-104.....**$1.25**

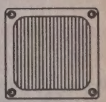
For 3-5/8" square fan with 3.245" mounting holes.

26-187.....**$1.25**

For 4-5/8" square fan with 4.125" mounting holes.

26-185.....**$1.25**

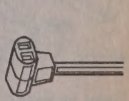
4-5/8" FAN FILTER SCREEN



Maximum flow. Tightly woven aluminum corrugated mesh screen in an aluminum frame. Solvent and degreaser washable.

26-184.....**$3.75**

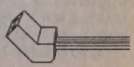
FAN CORDS



Black fan cord with molded plug mate our fans with standard terminal hook-up.

43-110.....2ft.....**$1.25**
26-402.....3ft.....**$1.25**

45°



26-502.....2ft.....**$1.25**

1.5V WATCH BATTERIES

Alkaline cell
7.8mm x 3.5mm
Replaces: AG3 / 192

L736.....$ .35

Alkaline cell
11.6mm x 4.2mm
Replaces: AG12 / LR43 / 186
L1142 / V12GA
RW84 / D186

186.....$ .35

Silver cell
11.6mm x 3.1mm
Replaces: SG10 / G10 / SR54
S1131S / LR54 / 554
17 / RW49

389.....$ .39

Silver cell
11.6mm x 5.4mm
Replaces: SG13 / G13 / SR44
LR44 / SR1154 / 541
7 / RW22, 42

357.....$ .75

LITHIUM 3 VOLT COIN CELLS

Part#	Cross-Ref	mAh	Dia x Ht (mm)	Price
39-189	CR1220	35	12 x 2	**$1.09**
39-190	BR1225	40	12 x 2.5	**1.49**
39-191	CR1616	50	16 x 1.6	**1.09**
39-192	CR2016	75	20 x 1.6	**.99**
39-193	CR2025	150	20 x 2.5	**.99**
39-194	CR2032	200	20 x 3.2	**.99**
39-195	BR2325	175	23 x 2.5	**1.69**
39-196	BR2330	255	23 x 3	**2.25**
39-197	CR2430	270	24 x 3	**1.25**
39-198	CR2450	550	24 x 5	**2.25**

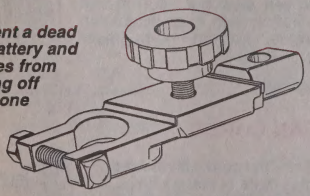
COIN CELL BATTERY HOLDER

For 20mm coin cell
(CR2016, CR2025, CR2023, CR2032, Etc.) PC mount

74-495.....$ .89

ANTI-THEFT BATTERY SAVER

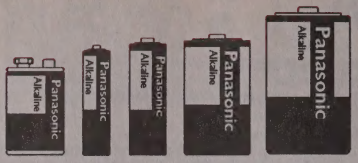
Prevent a dead car battery and thieves from driving off all in one



Easy to install. Simply tighten battery saver over one of your battery terminals and reconnect the existing wire directly to battery saver. Less than 5 minutes to install, save hours of aggravation. A quarter turn of the plastic knurled knob disconnects the power from your battery to prevent drain. Completely remove knob to disable battery and deter thieves.

BT-1.....$6.95

PANASONIC ALKALINE BATTERIES



Made in the USA
The cylindrical alkaline battery is composed of: manganese dioxide for the positive-activating substance, zinc powder for the negative-activating substance and caustic alkali for the electrolyte.

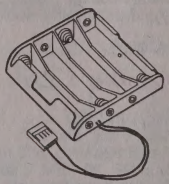
Part#	Size	Volt	Rated Drain (mA)	Price Each
AM1X	D	1.5	320	**$1.49**
AM2X	C	1.5	300	**1.25**
AM3X	AA	1.5	130	**.49**
AM4X	AAA	1.5	25	**.79**
AM5X	N	1.5	25	**1.19**
AM6X	9V	9	---	**2.10**

FUJI NOVEL

SUPER ALKALINE

Part#	Size	Voltage	Price
7300/2	AA	1.5	pk 2/$1.25
7300/4	AA	1.5	pk 4/$2.10
7400/2	AAA	1.5	pk 2/$1.25
7200/2	C	1.5	pk 2/$2.35
7100/2	D	1.5	pk 2/$2.35

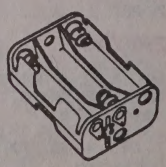
4 "AA" BATTERY HOLDER



2-1/2" x 2-1/4" x 5/8"
Black molded plastic holder carries 4 "AA" cells parallel.

74-490.....$ .69

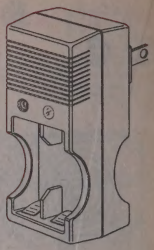
6 "AA" BATTERY HOLDER



2-1/4" x 1-13/16" x 1-1/8"
3 on 3 stacked
Black molded plastic
9V type snap connection

74-537.....$ .99

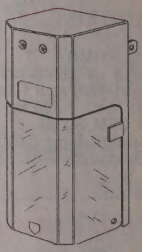
NICAD/NIMH "AA" BATTERY CHARGER



Mfg. - APPLE COMPUTER
Mfg.# - KB-39PA
4-1/8" x 1-5/8" x 1-1/2"
Input: 120 VAC, 60 Hz, 3.5 watt
Output: 1.2 VDC @ 450mA
Charges 4 "AA" batteries

56-667.....$4.49

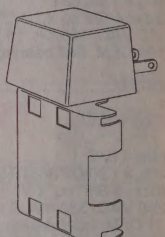
4 "AA" NICKEL METAL HYDRIDE BATTERIES WITH OVERNIGHT CHARGER



Input: 120 VAC, 60 Hz
Output: 3 VDC @ 240 mA
Includes four "AA" 1200 mAh Nickel metal Hydride batteries with charger. Charges either two or four batteries. 16 hour charge time to 100% capability. Unit features LED indicator.

33-179.....$29.95

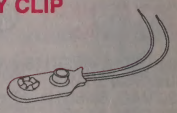
"C" CELL NICAD BATTERY CHARGER



Mfg. - GE
Mfg.# - BC3
Input: 120 VAC, 60 Hz
Output: 8.7 - 2.2 VDC @ 12-85mA
Charges two "C" cell NiCADS simultaneously. Includes wall adapter and battery holder.

56-610.....$1.99

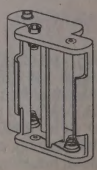
9 VOLT BATTERY CLIP



Vinyl covered head with red & black color coded leads.

(1-99) (100-Up)
74-159.....$ .10.....$ .09

4 "AA" BATTERY HOLDER



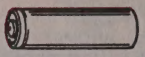
BH4LP.....$ .35

RECHARGEABLE "NICAD" BATTERIES

Mfg. - VINNIC
These high quality feature high mAh ratings and excellent discharge characteristics.

Part#	Size	Volts	mAh	Price
33-162	AAA	1.2	180	$1.49
33-160	AA	1.2	550	1.25
33-159	AA	1.2	720	1.59
33-164	C	1.2	1800	3.99
33-163	D	1.2	4000	6.95

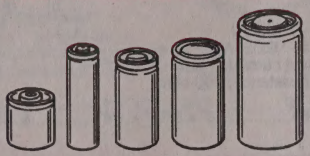
"AA" NICKEL METAL HYDRIDE BATTERY



1.2 VDC 1200mAh
Fast charge capability
NO CADMIUM, MERCURY OR LEAD
NO MEMORY EFFECT
Charging: Standard: 120mA for 16 hrs
Fast: 1200mA for 1 hr

33-149.....$2.99

NICKEL CADMIUM BATTERIES



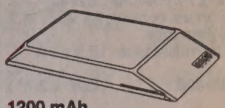
Features excellent discharge characteristics and long shelf life in a sealed strong leakproof construction.

Part#	Description	Volts	mAh	Price
AA-500WT	AA w/ tabs	1.2	500	$2.25
1/2SC-650WT	1/2 Sub-C Cell* * w/ tabs	1.2	650	5.99
SC-1200WT	Sub-C w/ tabs	1.2	1200	3.75
C-1800WT	C Cell w/ tabs	1.2	1800	6.25
D-4000WT	D Cell w/ tabs	1.2	4000	9.25
9V-8.4	9V Snaps	8.4	100	8.95

NICKEL METAL HYDRIDE CELLULAR REPLACEMENT BATTERIES

NO MEMORY, LONG LASTING, RECHARGEABLE

MOTOROLA FLIP PHONE



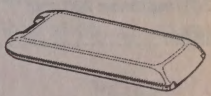
STANDARD - 6V, 1200 mAh

33-177.....$19.95

EXTENDED LIFE - 6V, 1800 mAh
36 hour stand-by • 270 minutes talk time

33-178.....$24.95

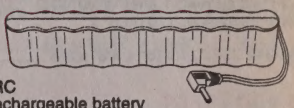
NOKIA 232



6V, 1200 mAh

33-180.....$19.95

12 VDC 1400mAH NICAD BATTERY PACK



Mfg. - JRC
Sub-C rechargeable battery pack. Center positive for polarity. Coaxial jack: OD - .215", ID - .082"

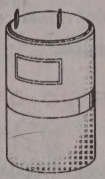
33-150.....$14.95

SEALED LEAD ACID RECHARGEABLE BATTERIES

Energy Products
The power of great ideas.

Mfg. - GATES CYCLON

Part#	Nominal Voltage (V)	Nominal Capacity 10Hr. Rate (Ah)	Nominal Capacity 20Hr. Rate (Ah)	Length Inches	Width Inches	Total Height Inches	Weight (Approx.)	Price
33-167	2	2.5	2.7	2.65	1.335	2.65	6.4 oz	$5.75
33-168	2	5	5.4	3.16	1.735	3.16	13 oz	8.25
33-169	2	25	26	6.78	2.55	6.78	3.49 lbs	33.75



LITHIUM POWER CELL

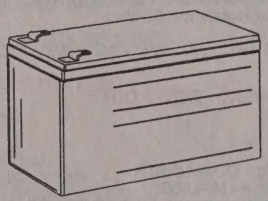
Ultralife® 9-volt lithium manganese dioxide power cells. 1200 mAh @ 900 W to 5.4V. Maximum discharge: 120 mA continuous. Corrosion-proof/leak resistant ultrasonically sealed. Contains no mercury, cadmium or lead. Shelf life up to 10 years. Not rechargeable.

33-148.....$8.95

SEALED LEAD ACID RECHARGEABLE BATTERIES

Applications:
•UPS/SPS Systems •Alarm Systems •Medical
•Portable Lighting •Point of Sale Backup •Etc.

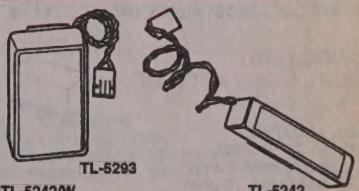
Compact efficient power sources designed for long life in float and cyclic applications, durability and dependable service. Suspended electrolyte allows batteries to be mounted in any position. .187" faston tab.



Part#	Cross Refference	Volts	Cap 20 HR Rate	Dimension(in.) L x W x H	Weight LB	Price
39-178	NP3-4	4	3	3.56 x 1.33 x 2.51	.94	14.95
39-179	NP1.2-6, LCR6V1.3P, PS612	6	1.2	3.82 x .98 x 2.15	.66	11.49
39-180	NP2.6-6	6	2.6	5.27 x 1.33 x 2.52	1.23	17.49
39-181	NP4-6, LCR6V4P, PS-640	6	4	2.76 x 1.85 x 4.15	1.87	12.95
39-182	NP7-6, LCR6V6.5P, LCR6V7.2P, PS-670	6	7	5.95 x 1.33 x 3.84	2.98	16.95
39-183	NP10-6, LCR6V10P, PS-6100	6	10	5.95 x 1.97 x 3.84	4.41	19.95
39-184	NP1.2-12, LCR12V1.3P, PS-1212	12	1.2	3.82 x 1.89 x 2.15	1.25	18.95
39-185	NP2.3-12, PS1200, 1226	12	2.3	7.01 x 1.34 x 2.52	2.07	22.95
39-186	NP4-12, PS-1242	12	4	3.54 x 2.75 x 4.17	3.74	23.95
39-187	NP7-12, LCR12V6.5P, PS-1270	12	7	5.95 x 2.56 x 3.84	5.84	24.95
39-188	NPG-18-12, LCR12V17BP	12	18	*7.12 x 2.99 x 6.57	13.70	62.95

*Nut & Bolt Terminals

LITHIUM COMPUTER CELLS



TL-5293 TL-5242

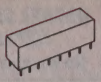
TL-5242/W
3.6 VOLT @ 1900 mAh
39-199.....62mm x 18mm x 16mm.....$10.99

TL-5293/W, BRE3
6 VOLT @ 1900 mAh
39-200.....59mm x 38mm x 20mm.....$14.49

2CR17335SEV, BRP2, PC223A
6 VOLT @ 1600 mAh
39-201.....33.8mm x 19.5mm x 35.9mm.....$11.99

844 ALKALINE
4.5 VOLT @ 1150 mAh
39-204.....60mm x 28mm x 22mm.....$10.99

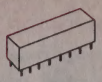
1.5 VDC - 4PDT DOUBLE WINDING LATCHING



Mfg. - TAKAMISAWA
Mfg.# - RA4L-D1.5W-K
Contact current: 24 VDC @ 1 amp resistive
2 amp max.
Coil resistance: 12.5 ohm

45-408.....1-3/8" x 3/8" x 3/8".....**$ .99**

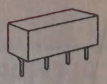
1.5 VDC - 4PDT DUAL COIL LATCHING



Mfg. - AROMAT
Mfg.# - DS4E-SL2-DC1.5V
Contact current: 2 amp @ 30 VDC
Coil resistance: 12.5 ohm, both coils

45-286.....1-3/8" x 3/8" x 3/8".....**$1.49**

5 VDC N.C. SIP



Mfg. - MAGNECRAFT
Mfg.# - 117SIP-33
Contact current: 1 amp
Coil resistance: 500 ohm
1 form B with diode, normally closed.

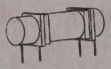
45-445.....3/4" x 1/4" x 1/4".....**$ .99**

5 VDC - SPST

Mfg. - AROMAT
Mfg.# - DA1a-5V-H1
Dip pack for 14 pin socket
Contact current: 10 vA
Coil resistance: 280 ohm

45-377.....**$ .99**

5 VDC - SPST - N.O.



Mfg. - HAMLIN
Mfg.# - HE321A
Contact current: 1 amp
Coil resistance: 700 ohm

45-361.....7/8" x 5/16" x 1/4".....**$ .65**

5 VDC - SPST N.O.

Mfg. - P&B
Mfg.# - T90S1D12-5
Contact current: 30 amps @ 240 VAC
Coil resistance: 27 ohm

45-537.....1-1/4" x 1" x 3/4".....**$1.99**

5 VDC SPST DUAL COIL LATCHING

Mfg. - AROMAT
Mfg.# - RSL2D-5V
Contact current: 1 amp @ 20 VDC
Coil resistance: 170 ohm

45-512.....13/16" x 3/8" x 3/8".....**$1.99**

5 VDC - SPDT

Mfg. - SIEMANS
Mfg.# - V23026-A1001-B201
Contact current: 1 amp
Coil resistance: 370 ohm

45-389.....1/2" x 5/16" x 1/4".....**$1.25**

5 VDC - SPDT

Mfg. - SIEMANS
Mfg.# - V23040-A0001-B201
Contact current: 1 amp @ 30 VDC
Coil resistance: 330 ohm

45-473.....3/4" x 3/8" x 5/16".....**$1.25**

5 VDC - SPDT

Mfg. - MIDTEX
Mfg.# - 296-11E300
Contact current: 10 amp @ 250 VAC
8 amp @ 30 VDC
Coil resistance: 62 ohm

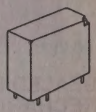
45-580.....7/8" x 5/8" x 3/4".....**$1.99**

5 VDC SPDT

Mfg. - MIDTEX
Mfg.# - 188-36E2A1
Contact current:
30 amp, 1HP @ 120 VAC
15 amp @ 600 VAC
Coil resistance: 18 ohm

45-564.....2" x 1-1/2" x 1-3/8".....**$4.49**

5 VDC DPST - N.O.



Mfg. - GUARDIAN
Mfg.# - 1665S-2A-5D
5 amp @ 30 VDC/120 VAC
Coil resistance: 45 ohm

45-628.....1-1/8" x 1/2" x 1".....**$ .99**

5 VDC - DPDT

Mfg. - AROMAT
Mfg.# - TF2E-5V
Contact current: 1 amp @ 30 VDC
Coil resistance: 312 ohm
Polarized - magnetically shielded

45-523.....9/16" x 3/8" x 1/4".....**$1.49**

5 VDC - DPDT DIP

Mfg. - TAKAMISAWA
Mfg.# - RY5D-K
Contact current: 1 amp @ 24 VDC
Coil resistance: 55 ohm

45-493.....3/4" x 1/2" x 3/8".....**$1.75**

5 VDC - DPDT DIP

Mfg. - TAKAMISAWA
Mfg.# - RY-5WF-K
Contact current: 1 amp @ 24 VDC
Coil resistance: 45 ohm

45-502.....3/4" x 3/8" x 1/2".....**$1.75**

5 VDC DPDT DUAL COIL LATCHING

Mfg. - MIDTEX
Mfg.# - 327-21E200
Contact current: 2 amp
Coil resistance: 70 ohm

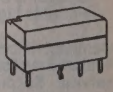
45-345.....3/4" x 3/8" x 5/16".....**$1.49**

5 VDC - DPDT DIP

Mfg. - COMM INSTR
Mfg.# - MDL05S
Contact current: 1 amp @ 30 VDC
Coil resistance: 48 ohm

45-563.....13/16" x 3/8" x 7/16".....**$1.75**

5 VDC - DPDT



Mfg. - FUJITSU
Mfg.# - FBR244D005/02CS
Contact current: 1 amp @ 28 VDC
Coil resistance: 50 ohm

45-577.....3/4" x 3/8" x 3/8".....**$1.49**

5 VDC - DPDT DIP

Mfg. - GRUNER
Mfg.# - X002A-G0005H
Contact current: 2 amp @ 30 VDC
Coil resistance: 45 ohm

45-506.....13/16" x 3/8" x 3/8".....**$1.75**

5 VDC - DPDT LATCHING 1 COIL

Mfg. - AROMAT
Mfg.# - DS2E-ML-DC5V
Contact current: 2 amp @ 30 VDC
Coil resistance: 139 ohm
Operating power: 400 mW

45-449.....3/4" x 3/8" x 3/8".....**$1.49**

5 VDC - DPDT 2 COIL LATCHING

Mfg. - COMM INSTR
Mfg.# - MQP5L
Contact current: 2 amp @ 30 VDC
Coil resistance: 250 ohm

45-581.....9/16" x 3/8" x 3/16".....**$1.49**

5 VDC - DPDT DIP 2 COIL LATCHING

Mfg. - COMM INSTR
Mfg.# - MDP5K-01
Contact current: 1 amp @ 24 VDC
Coil resistance: 319 ohm

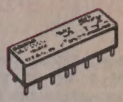
45-567.....13/16" x 3/8" x 3/8".....**$1.49**

5 VDC - DPDT FLATPACK

Mfg. - AROMAT
Mfg.# - NC2D-JP-DC5V
Contact current: 5 amp @ 250 VAC
Coil resistance: 69.4 ohms

45-368.....1" sq x 7/16".....**$1.99**

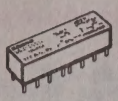
5 VDC - 4PDT 2 COIL LATCHING



Mfg. - AROMAT
Mfg.# - DS4E-ML2-DC5V
Contact current: 2 amp @ 30 VDC
Coil resistance: 69.4 ohm

45-644.....1-3/8" x 3/8" x 3/8".....**$3.49**

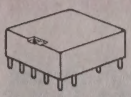
5 VDC - 4PDT 2 COIL LATCHING



Mfg. - AROMAT
Mfg.# - DS4E-SL2-DC5
1-3/8" x 3/8" x 3/8"
Contact current: 2 amp @ 30 VDC
Coil resistance: 139 ohm

45-253.....**$3.49**

5 VDC - 4PDT



Mfg. - AROMAT
Mfg.# - NF4EB-5V
Contact current: 2 amp @ 30 VDC
Coil resistance: 53 ohms

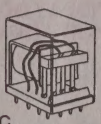
45-407.....1-1/8" x 1" x 7/16".....**$1.99**

6 VDC - 4PDT

Mfg. - GOULD
Mfg.# - TS154X-1209
Contact current: 2 amp @ 28 VDC
Coil resistance: 250 ohm

45-300.....1-1/8" x 3/4" x1-1/8".....**$1.99**

6 VDC - 4PDT



Mfg. - OMRON
Mfg.# - MY04-02-VH
Contact current: 5 amp @ 240 VAC
Coil resistance: 40 ohm

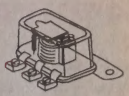
45-358.....1-3/8" x 1" x 3/4".....**$1.99**

12 VDC - SPST N.O.

Mfg. - GORDOS
Sip pack
Contacts rated: 10 W max, 200 VDC max, switch .5A, carry 1.5A. Coil resistance: 1500 ohm, 12 VDC must pull-in = 9.6V, must drop-out 1.2V. Normal coil voltage: 9.6-12 VDC

45-191.....3/4" x 1/4" x 1/4".....**$ .79**

12 VDC - SPST N.O.



2-3/8" x 1-1/4" x 1-3/8"
on mounting flange.
Automotive style with clear dome.
Contact current: 11 amp @ 12 VDC
Coil resistance: 40 ohm

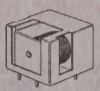
45-468.....2-3/8" x 1-1/4" x 1-3/8".....**$ .75**

12 VDC SPST N.C. POWER RELAY

Mfg. - BOSCH
Mfg.# - 0 332 104 001
SPST, 12 VDC @ 20 amp
Coil resistance: 80 ohm

45-495.....1"sq x 1".....**$ .99**

12 VDC - SPST N.O.



Mfg. - FUJITSU
Mfg.# - FRL-270D012/01AD
Contact current: 30 AMP
Coil resistance: 85 ohms

45-488.....7/8" x 3/4" x 13/16".....**$ .99**

12 VDC - SPST N.O.

Mfg. - AROMAT
Mfg.# - JR1aF-DC12V
Contact current: 16 amp @ 277 VAC, 30 VDC. 1/2 HP 125 VAC.
Coil resistance: 270 ohm

45-469.....1-1/8" x 1/2" x 1-1/8".....**$1.99**

12 VDC SPST-N.O. REED RELAY

Mfg. - WABASH
Coil resistance: 1450 ohm
Contact current: 1 amp

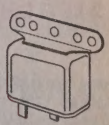
91-330.....3/4" x 1/4" x 1/4".....**$ .75**

12 VDC SPST - N.O. DIP REED

Mfg. - GORDOS
Mfg.# - 831A-5
Contact current: .5 amp
Coil resistance: 100 ohms

45-363.....3/4" x 1/4" x 1/4".....**$ .75**

12 VDC - SPST N.O. HORN RELAY



Mfg. - BEARFINDER
Contact current: 25 amp
Coil resistance: 17 ohm

45-582.....**$1.49**

12 VDC - SPST - N.O.

Mfg. - FUJITSU
Mfg.# - FRL-270-N D012/01AD
Max contact current: 30 amp
Coil resistance: 85 ohm

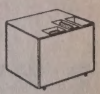
45-521.....7/8"sq x 3/4".....**$ .99**

12 VDC SPST - N.O.

Mfg. - GUARDIAN
Mfg.# - 1715S-1A-12D
6 amps @ 120 VAC/30 VDC
Coil resistance: 320 ohm

45-625.....7/8" x 5/8" x 5/8".....**$ .89**

12 VDC SPST - N.O.



Mfg. - GUARDIAN
Mfg.# - 5005-1A-12VDC
30 amps @ 28 VDC/250 VAC
Coil resistance: 160 ohm

45-615.....1-1/4" x 1-1/16" x 1-1/16".....**$1.25**

12 VDC SPST - N.O.

Mfg. - GUARDIAN
Mfg.# - 1715S-1A-12D
10 amp @ 30 VDC/120 VAC
Coil resistance: 320 ohm
Sealed case. Printed circuit terminals

45-629.....7/8" x 5/8" x 5/8".....**$ .99**

12 VDC - SPDT

Mfg. - CORNWELL DUBILIER
Mfg.# - 601-106S
Contact current: 3 amp
Coil resistance: 1280 ohm

45-256.....1-1/4" x 3/4" x 1-1/8".....**$1.50**

12 VDC - SPDT

Mfg. - AROMAT
Mfg.# - HA1E-DC12V
Contact current: 3 amp @ 30 VDC
Coil resistance: 400 ohms

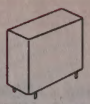
45-406.....1" x 9/16" x 11/16".....**$1.49**

12 VDC - SPDT

Mfg. - TAKAMISAWA
Mfg.# - VS12STBU-E 12VDC
Contact current: 10 amp @ 24 VDC/240 VAC
Coil resistance: 270 ohm

45-604.....1-1/8" x 1/2" x 1".....**$1.49**

12 VDC - SPDT



Mfg. - AROMAT
Mfg.# - JY1J-DC12V
Contact current: 10 amp @ 125 VAC
Coil resistance: 360 ohm

45-474.....7/8" x 7/16" x 7/8".....**$1.49**

12 VDC - SPDT

Mfg. - FUJITSU
Mfg.# - FRL-270-N D012/041CD
Max contact current: 30 amp
Coil resistance: 85 ohm
PC mount, immersion cleanable

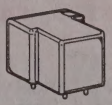
45-522.....7/8"sq x 3/4".....**$1.49**

12 VDC - SPDT

Mfg. - AROMAT
Mfg.# - JW1FHN-DC12V
Contact current: 0 amp @ 30 VDC
Coil resistance: 270 ohm

45-446.....1-1/8" x 1/2" x 3/4".....**$1.99**

12 VDC - SPDT



Mfg. - SCHRACK
Mfg.# - TD413012
Contact current: 10 amp @ 240 VAC
Coil resistance: 150 ohm

45-464.....1-1/4" x 1-1/16" x 3/4".....**$1.49**

12 VDC 40 AMP POWER

Mfg. - P&B
Mfg.# - VF4-45F11
SPDT, 12 VDC @ 40 amp
Coil resistance: 90 ohm
With bracket

(1-99) (100-Up)

45-287.....1" sq x 1".....**$3.50**.....**$3.25**

12 VDC - SPDT

Mfg. - MIDTEX
Mfg.# - 390-21B200
Contact current: N.O. 15 amp @ 125 VAC
N.C. 10 amp @ 125 VAC
Coil resistance: 155 ohm

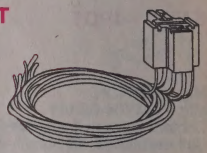
45-539.....1-1/4" x 1-1/8" x 13/16".....**$1.49**

12 VDC - SPDT

Mfg. - MIDTEX
Mfg.# - 296-11B300
Contact current: 10 amp @ 250 VAC
Coil resistance: 370 ohm

45-556.....7/8" x 5/8" x 3/4".....**$1.99**

RELAY SOCKET FOR ABOVE



21-193.....**$2.09**

12 VDC SPDT

Mfg. - GUARDIAN
Mfg.# - 1675S-1C-12D
7/8" x 5/8" x 5/8"
5 amps @ 30 VDC/240 VAC
Coil resistance: 320 ohm

45-626.....**$ .99**

12 VDC SPDT

Mfg. - GUARDIAN
Mfg.# - 1505S-1C-12D
5/8" x 7/16" x 7/16"
1 amps @ 30 VDC
Coil resistance: 333 ohm

45-621.....5/8" x 7/16" x 7/16".....**$ .99**

12 VDC SPDT

Mfg. - GUARDIAN
Mfg.# - 1345S-1C-12D
1-1/4" x 3/4" x 1-1/8"
10 amp @ 12 VDC/120 VAC
Coil resistance: 1400 ohm
Sealed case. Printed circuit terminals

45-632.....**$1.25**

12 VDC SPDT

Mfg. - GUARDIAN
Mfg.# - 1725-1C-12D
5 amp @ 30 VDC/240 VDC
Coil resistance: 400 ohm

45-630.....7/8" x 5/8" x 7/8".....**$ .99**

12 VDC SPDT

Mfg. - GUARDIAN
Mfg.# - 1565S-1C-12D
6 amp @ 30 VDC/120 VAC
Coil resistance: 180 ohm

45-631.....1" x 5/8" x 7/8".....**$1.25**

12 VDC SPDT

Mfg. - GUARDIAN
Mfg.# - 5005-1C-12D
10 amp @ 28 VDC/250 VAC
Coil resistance: 160 ohm

45-633.....1-1/4" x 1-1/16" x 1-1/16".....**$1.25**

12 VDC - DPST - N.O. DIP

Mfg. - MIDLAND ROSS
Mfg.# - 190-21B100
Dip pack
Contact current: 2 amp @ 28 VDC
Coil resistance: 285 ohm

45-568.....13/16" x 3/8" x 7/16".....**$1.75**

12 VDC - DPDT RELAY

Mfg. - MELSEI
Mfg.# - M4-12H
3/4" X 3/8" X 7/16"
Contact current: 2 amp @ 30 VDC
Coil resistance: 920 ohm

New

45-656.....**$2.49**

12 VDC - DPDT DIP

Mfg. - NEC
Mfg.# - MR62-12USR
Contact current: 2 amp @ 30 VDC
Coil resistance: 278 ohms

45-496.....3/4" x 7/16" x 3/8".....**$2.49**

12 VDC - DPDT

Mfg. - MELSEI
Mfg.# - M4-12H
3/4" X 3/8" X 7/16"
Contact current: 2 amp @ 30 VDC
Coil resistance: 920 ohm

New

45-656.....**$2.49**

12 VDC - DPDT

Mfg. - COMM INSTR
Mfg.# - MDX12001
Contact current: 1 amp @ 30 VDC
Coil resistance: 280 ohm

45-562.....13/16" x 5/8" x 3/4".....**$2.49**

12 VDC - DPDT

Mfg. - SIEMANS
Mfg.# - V23042-A2003-B201
Contact current: 2 amp @ 30 VDC
Coil resistance: 600 ohm

45-648.....3/4" x 3/8" x 3/8".....**$2.49**

12 VDC - DPDT

Mfg. - TAKAMISAWA
Mfg.# - RA12W-K
Contact current: 2 amp @ 30 VDC
Coil resistance: 900 ohm

45-649.....3/4" x 3/8" x 3/8".....**$2.49**

12 VDC - DPDT DIP

Mfg. - TAKAMISAWA
Mfg.# - RZ-12
Contact current: 1 amp @ 30 VDC
Coil resistance: 280 ohm

45-578.....13/16" x 3/8" x 7/16".....**$2.49**

12 VDC - DPDT POLARIZED

Mfg. - AROMAT
Mfg.# - TQ2E-12V
Contact current: 1 amp @ 30 VDC
Coil resistance: 1028 ohm
Single side stable

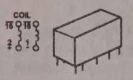
45-650.....9/16" x 5/16" x 3/16".....**$1.99**

12 VDC - DPDT LATCHING

Mfg. - TAKAMISAWA
Mfg.# - RZL-12-C
Contact current: 2 amp
Coil resistance: 52 ohm

45-248.....13/16" x 3/8" x 7/16".....**$1.99**

12 VDC - DPDT DUAL COIL LATCHING



Mfg. - MIDTEX
Mfg.# - 327-21B200
Contact current: 2 amp
Coil resistance: 400 ohm

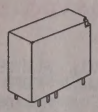
45-344.....13/16" x 3/8" x 5/8".....**$2.25**

12 VDC - DPDT LATCHING

Mfg. - COMM INSTR
Mfg.# - MQP12L
Contact current: 2 amp
@ 30 VDC
Coil resistance: 1400 ohm

45-583.....9/16" x 3/8" x 3/16".....**$1.95**

12 VDC DPDT



Mfg. - GUARDIAN
Mfg.# - 1665-2C-12D
5 amp @ 30 VDC/240 VAC
Coil resistance: 275 ohm
Printed circuit terminals

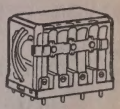
45-634.....1-1/8" x 1/2" x 1".....**$1.25**

12 VDC OCTAL 3PDT

Mfg. - GUARDIAN
Mfg.# - 1415-3C-12D
Contact current: 6 amp @ 240 VAC
Coil resistance: 120 ohm
11pin octal relay

45-610.....2-1/8" x 1-3/8" x 1-3/8".....**$1.49**

12 VDC 4PDT



Mfg. - GUARDIAN
Mfg.# - 1385P-4C-12D
10 amps @ 30 VDC
Coil resistance: 97 ohm

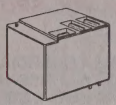
45-614.....1-5/8" x 1-1/8" x 1-3/8".....**$4.95**

DPDT PLATE CIRCUIT RELAY

Mfg. - GUARDIAN
Mfg.# - 1215-2C-5D
Contact current: 10 amp non inductive
Coil resistance: 5000 ohm - 7.2 mA
8 pin octal

45-654.....2-1/8" x 1-3/8" x 1-3/8".....**$8.95**

15 VDC - SPST N.O.



Mfg. - AMERICAN ZETTLER
Mfg.# - AZ2100-1A-15D
Contact current: 30 amp
Coil resistance: 275 ohm

45-356.....1-1/4" x 1-1/8" x 1-1/8".....**$1.49**

15 VDC - SPDT

Mfg. - FUJITSU
Mfg.# - FBR111SUD015
Contact current: 3 amp @ 28 VDC
Coil resistance: 470 ohm

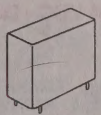
45-504.....3/4" x 7/8" x 5/8".....**$ .89**

24 VDC - SPST N.O.

Mfg. - AROMAT
Mfg.# - JT1a-DC24V
Contact current: 30 amp @ 250 VAC
Coil resistance: 660 ohm

45-457.....1-1/4" x 1" x 3/4".....**$ .99**

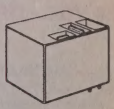
24 VDC - SPST - N.O.



Mfg. - TAKAMISAWA
Mfg.# - VS-24MB
Contact current: 10 amp @ 30 VDC
Coil resistance: 820 ohm

45-369.....1-1/8" x 15/16" x 1/2".....**$1.49**

24 VDC - SPST-N.O.



Mfg. - P&B
Mfg.# - T91S1D22-24
Contact current: 30 amp @ 240 VAC
Coil resistance: 660 ohm

45-482.....1-1/4" x 1-1/16" x 1-1/16".....**$1.49**

24 VDC - (2) SPST LATCHING

Mfg. - POTTER & BRUMFIELD
Mfg.# - JRML-1011
Contact current: 10 volt amps
Coil resistance: 2,550 ohm

45-136.....1-1/8" x 5/8" x 7/16".....**$1.49**

24 VDC - SPST N.O. HIGH VOLTAGE REED

Mfg. - COTO
Mfg.# - CR4031-24
3/4" leads
N.O., SPST, 24 VDC mercury wetted mini reed relay switch. 500 VDC @ 500 mA max.

45-242.....7/8" x 3/8".....**$1.49**

24 VDC SPST - N.O.

Mfg. - GUARDIAN
Mfg.# - 1565S-1A-24D
3 amps @ 30 VDC
Coil resistance: 720 ohm

45-623.....1" x 11/16" x 13/16".....**$ .65**

24 VDC SPST - N.O.

Mfg. - GUARDIAN
Mfg.# - 1715S-1A-24D
10 amps @ 30 VDC/120 VAC
Coil resistance: 1280 ohm

45-624.....7/8" x 5/8" x 5/8".....**$ .85**

24 VDC SPST - N.O.

Mfg. - GUARDIAN
Mfg.# - 1715S-1A-24D
10 amps @ 30 VDC/120 VAC
Coil resistance: 1280 ohm

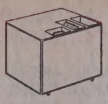
45-627.....7/8" x 5/8" x 5/8".....**$ .89**

24 VDC SPST - N.O.

Mfg. - GUARDIAN
Mfg.# - 5005-1A-24VDC
30 amps @ 28 VDC/250 VAC
Coil resistance: 630 ohm
1/4" quick-connect terminals on top

45-622.....1-1/4" x 1-1/16" x 1-1/16".....**$ .99**

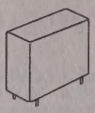
24 VDC SPST - N.O.



Mfg. - GUARDIAN
Mfg.# - 5005-1A-24D
30 amp @ 28VDC/250 VAC
Coil resistance: 600 ohm

45-635.....1-1/4" x 1-1/16" x 1-1/16".....$ .99

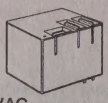
24 VDC - SPDT



Mfg. - AROMAT
Mfg.# - JY1J-DC24V
Contact current: 10 amp @ 125 VAC
Coil resistance: 1440 ohms

45-472.....7/8" x 7/16" x 7/8".....$ .99

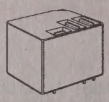
24 VDC - SPDT



Mfg. - P&B
Mfg.# - T91R5D22-24-01
Contact current:
N.O. - 20 amp @ 240 VAC
N.C. - 10 amp @ 240 VAC
Coil resistance: 660 ohms

45-480.....1-1/4" x 1-1/16" x 1-1/16".....$1.95

24 VDC - SPDT



Mfg. - HASCO
Mfg.# - HAT902CSDC24
Contact current: 30 amp @ 28 VDC
Coil resistance: 680 ohm

45-603.....1-3/16" x 1-1/8" x 1".....$1.75

24 VDC - DPST N.O.

Mfg. - AROMAT
Mfg.# - JC2a-DC24V
Contact current: 5 amp @ 250 VAC/30 VDC
Coil resistance: 600 ohm

45-428.....1-1/4" x 3/4" x 1-1/4".....$1.49

24 VDC - DPDT DIP

Mfg. - NEC
Mfg.# - MR62-24S
Contact current: 2 amp @ 30 VDC
Coil resistance: 1000 ohm

45-455.....3/4" x 7/16" x 3/8".....$ .75

24 VDC - DPDT LATCHING

Mfg. - COMM INSTR
Mfg.# - MQP24L
Contact current: 1 amp @ 24 VDC
Coil resistance: 3600 ohm

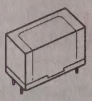
45-584.....9/16" x 3/8" x 3/16".....$1.49

24 VDC - SPDT

Mfg. - FUJITSU
Mfg.# - FBR161NED024
Contact current: 3 amp @ 28 VDC
Coil resistance: 1600 ohm

45-505.....7/8" x 5/8" x 5/8".....$ .75

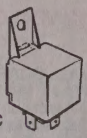
24 VDC - SPDT



Mfg. - AROMAT
Mfg.# - HA1-DC24
Contact current: 3 amp @ 30 VDC
Coil resistance: 1600 ohm

45-565.....1" x 9/16" x 5/16".....$1.49

24 VDC - SPDT 20 AMP POWER



Mfg. - AROMAT
Mfg.# - CB1E-D-M-24V
Contact current: 20 amp @ 24 VDC
Coil resistance: 320 ohm

45-566.....1"sq x 13/16".....$3.49

24 VDC SPDT

Mfg. - GUARDIAN
Mfg.# - 1715S-1C-24D
7/8" x 5/8" x 5/8"
5 amp @ 30 VDC/120 VAC
Coil resistance: 1600 ohm

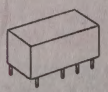
45-636.....7/8" x 5/8" x 5/8".....$ .99

24 VDC - DPST N.O.

Mfg. - AMERICAN ZETTLER
Mfg.# - AZ2732-560-4
Contact current: 8 amp @ 24 VDC/115 VAC
Coil resistance: 740 ohm

45-320.....1-1/16" x 1" x 7/16".....$1.99

24 VDC - DPDT DIP



Mfg. - COMM INSTR
Mfg.# - MDL24S
Contact current: 1 amp @ 30 VDC
Coil resistance: 1000 ohm

45-561.....13/16" x 3/8" x 7/16".....$ .99

24 VDC - DPDT

Mfg. - ALLIED CONTROL
Mfg.# - TG163-4C
1-1/8" x 3/4" x 1-1/8"
Contact current: 2 amp @ 24 VDC
Coil resistance: 1275 ohms

45-410.....$2.95

24 VDC - SPDT

Mfg. - MIDTEX
Mfg.# - 296-11C300
Contact current: 10 amp @ 250 VAC
Coil resistance: 1400 ohm

45-555.....7/8" x 5/8" x 3/4".....$ .99

24 VDC SPDT

Mfg. - P&B
Mfg.# - RKS-5DW-24
Contact current: 16 amp 28 VDC
or 277 VAC
Coil resistance: 1000 ohm

45-587.....1-1/8" x 1/2" x 1-1/16".....$1.99

24 VDC - SPDT

Mfg. - FUJITSU
Mfg.# - FBR111DO24
Contact current: 6 amp @ 28 VDC/120 VAC
Coil resistance: 1150 ohm

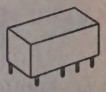
45-607.....7/8" x 13/16" x 5/8".....$ .99

24 VDC SPDT

Mfg. - GUARDIAN
Mfg.# - 5005-1C-24D
10 amp @ 28 VDC/250 VAC
Coil resistance: 600

45-637.....1-1/4" x 1-1/16" x 1-1/16".....$ .99

24 VDC - DPDT DIP



Mfg. - HASCO
Mfg.# - HS1212-24
13/16" x 3/8" x 1/2"
Contact current: 2 amp @ 30 VDC
Coil resistance: 2880 ohms

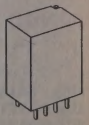
45-367.....$1.49

24 VDC - DPDT

Mfg. - FUJITSU
Mfg.# - 25H2C24P1
Contact current: 1 amp @ 24 VDC
Coil resistance: 2300 ohm

45-579.....9/16" x 3/8" x 1/4".....$1.49

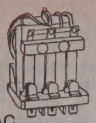
24 VDC DPDT



Mfg. - GUARDIAN
Mfg.# - 1335PS-2C-24D
5 amp @ 30 VDC/120 VAC
Coil resistance: 500 ohm

45-638.....7/8" x 3/4" x 1-3/16".....$1.25

24 VDC - 3PDT



Mfg. - MIDTEX
Mfg.# - 157-13C300
Contact current: 15 amp @ 120 VAC
Coil resistance: 470 ohm

45-559.....2" x 1-3/8" x 1-1/4".....**$3.95**

24 VDC OCTAL 3PDT

Mfg. - GUARDIAN
Mfg.# - A410-867167-138, 141S series
Contact current: 10 amp @ 240 VAC
Coil resistance: 470 ohm
11 pin octal relay.

45-448.....2" x 1-3/8" x 1-3/8".....**$3.95**

24 VDC - 4PDT

Mfg. - FUJITSU
Mfg.# - FRL263D024/04CT
Contact current: 1 amp @ 30 VDC/ 120 VAC
Coil resistance: 650 ohm

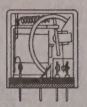
45-321.....1-1/4" x 1" x 3/4".....**$2.99**

24 VDC - 4PDT

Mfg. - FUJITSU
Mfg.# - FRL-264DO24/04CV
Contact current: 5 amp @ 30 VDC/ 240 VAC
Coil resistance: 650 ohm

45-605.....1-1/16" x 7/8" x 1-1/8".....**$2.99**

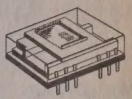
24 VDC - 4PDT



Mfg. - AROMAT
Mfg.# - HC4-HP-DC24
Contact current: 5 amp @ 125 VAC
Coil resistance: 650 ohm

45-510.....1-3/8" x 1-1/16" x 13/16".....**$2.99**

24 VDC - 6PDT FLAT PACK



Mfg. - AMERICAN ZETTLER
Mfg.# - AZ7P-E-6C-24D
Contact current: 2 amp @ 30 VDC, 50 VAC.
Coil resistance: 500 ohm

45-437.....1-1/4" x 1-3/8" x 7/16".....**$1.99**

48 VDC - DPST N.O.

Mfg. - AROMAT
Mfg.# - JR1aF-DC48V
Contact current: 16 amp @ 277 VAC/30 VDC
1/2 HP 125 VAC, 250 VDC
Coil resistance: 4350 ohm

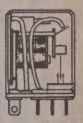
45-432.....1-1/8" x 1/2" x 1-1/8".....**$1.25**

48 VDC - DPDT DUAL COIL LATCHING

Mfg. - COMM INSTR
Mfg.# - MDP12K-01
Contact current: 1 amp @ 24 VDC
Coil resistance: 6400 ohm

45-585.....3/4" x 3/8" x 3/8".....**$1.25**

48 VDC - DPDT



Mfg. - FUJITSU
Mfg.# - FRL-263D048/02CK
Contact current: 10 amp @ 30 VDC/240 VAC
Coil resistance: 2600 ohm

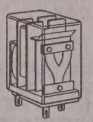
45-608.....1-5/16" x 1-1/16" x 7/8".....**$1.49**

48 VDC - 4PDT

Mfg. - FUJITSU
Mfg.# - FRL-263D048/04CS
Contact current: 3 amp @ 30 VDC/120 VAC
Coil resistance: 2600 ohm

45-606.....1-5/16" x 1-1/16" x 7/8".....**$1.99**

110 VDC - SPDT



Mfg. - FUJITSU
Mfg.# - FRL263D110/01CS
Contact current: 5 amp @ 30 VDC, 120 VAC
Coil resistance: 13,300 ohm

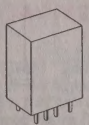
45-324.....1-1/4" x 1" x 3/4".....**$1.99**

110 VDC DPDT

Mfg. - MIDTEX
Mfg.# - 158-12F200
Contact current: 10 amp @ 28 VDC/120 VAC
Coil resistance: 11,670 ohm

45-651.....1-5/16" x 1-1/8" x 7/8".....**$2.95**

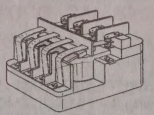
110 VDC DPDT



Mfg. - GUARDIAN
Mfg.# - 1395PVS-2C-110D
13 amp @ 30 VDC/120 VAC
Coil resistance: 11,000 ohm

45-639.....1-1/8" x 7/8" x 1-3/8".....**$3.95**

110 VDC 4PDT



Mfg. - GUARDIAN
Mfg.# - 1390VS-2C-24A
30 amps @ 277 VAC
25 amps @ 28 VDC
Coil resistance: 3660 ohm

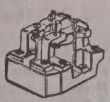
45-620.....3-1/4" x 2-1/2" x 2-1/8".....**$9.95**

110 VDC - 4PDT

Mfg. - FUJITSU
Mfg.# - FRL-263 D110/04CV
Contact current: 5 amp @ 30 VDC/ 120 VAC
Coil resistance: 13.3K ohm

45-519.....1-1/4" x 1" x 3/4".....**$5.95**

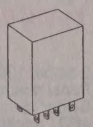
24 VAC - DPST N.C.



Mfg. - STRUTHERS DUNN
Mfg.# - 425XXB
Contact current: 30 amp 120/240 VAC
Coil resistance: 8.6 ohm

45-306.....2-1/2" x 3-1/4" x 2-1/2".....**$4.95**

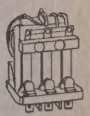
24 VAC DPDT



Mfg. - GUARDIAN
Mfg.# - 1240-3C-24A
13 amp @ 30 VDC/120 VAC
Coil resistance: 160

45-640.....1-1/16" x 13/16" x 1-3/8".....**$1.99**

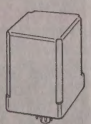
24 VAC 3PDT



Mfg. - GUARDIAN
Mfg.# - 1240-3C-24A
10 amps @ 120 VAC
Coil resistance: 50 ohm

45-618.....1-3/8" x 1-1/8" x 1".....**$2.49**

24 VAC 3PDT



Mfg. - GUARDIAN
Mfg.# - 1410-3C-24A
10 amps @ 30 VDC/120 VAC
Coil resistance: 72 ohm

45-612.....2-1/8" x 1-3/8"sq.....**$4.95**

115 VAC - SPDT

Mfg. - SCHRACK
Mfg.# - RM102615
Contact current: 16 amp @ 380 VAC
Coil resistance: 2,000 ohms

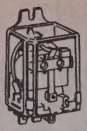
45-489.....2" x 1-1/2" x 1-3/8".....**$1.99**

115 VAC - DPDT

Mfg. - AROMAT
Mfg.# - H2L-P-AA115V
1-1/4" x 1" x 3/4"
Contact current: 10 amp @ 30 VDC
Coil resistance: 11,000 ohm

45-327.....**$2.75**

120 VAC - SPST - N.O.



Mfg. - DELTROL
Mfg.# - 265F
Contact current: 5 amp @ 120 VAC
Coil resistance: 2200 ohms

45-376.....1-1/2" x 1-1/4" x 2".....**$1.95**

120 VAC - DPST

Mfg. - GUARDIAN
Mfg.# - A410-367263-103
Contact current: 15 amp resistive @ 120 VAC
Coil resistance: 3900 ohm

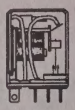
45-263.....1-1/8" x 1-1/16" x 13/16".....**$2.50**

120 VAC - DPDT

Mfg. - MAGNECRAFT
Mfg.# - W389ACX-9
2" x 1-3/8" x 1-1/2"
Contact current: 25 amp @ 300 VAC
Coil resistance: 1660 ohm

45-503.....**$5.95**

120 VAC - DPDT



Mfg. - OMRON
Mfg.# - LY2N-UA-AC120
Contact current: 10 amp @ 24 VDC
Coil resistance: 390 ohm

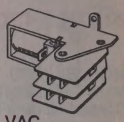
45-475.....1-3/8" x 13/16" x 1".....**$3.95**

120 VAC - DPDT

Mfg. - OMRON
Mfg.# - G2R-217P-V-US-120VAC
Contact current: 5 amp @ 250 VAC
Coil resistance: 6500 ohm, 5 amp @ 30 VDC

45-250.....1-1/8" x 1" x 1/2".....**$1.99**

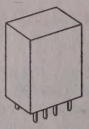
120 VAC DPDT



Mfg. - POTTER BRUMFIELD
Mfg.# - S86R11A1B1D1120
Contact current: 20 amp @ 277 VAC
Coil resistance: 800 ohm

45-507.....2-3/8" x 1-7/8" x 1".....**$3.95**

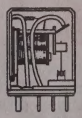
120 VAC DPDT



Mfg. - GUARDIAN
Mfg.# - 1390PVS-2C-120A
13 amp @ 30 VDC/240 VAC
Coil resistance: 3900 ohm

45-642.....1-1/8" x 7/8" x 1-3/8".....**$2.95**

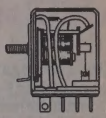
120 VAC DPDT



Mfg. - GUARDIAN
Mfg.# - 1390P-2C-120A
13 amp @ 30 VDC/120 VAC
Coil resistance: 3900 ohm

45-641.....1-1/16" x 13/16" x 1-3/8".....**$1.95**

120 VAC DPDT



Mfg. - GUARDIAN
Mfg.# - 1390P-2C-120A
13 amp @ 30 VDC/240 VAC
Coil resistance: 3900 ohm

45-643.....1-1/16" x 13/16" x 1-3/8".....**$1.95**

120 VAC - 3PDT

Mfg. - MIDTEX
Mfg.# - 156-14T2M6
Contact current: 5 amp @ 28 VDC/ 120 VAC
Coil resistance: 3700 ohm

45-572.....1-5/16" x 1-1/16" x 7/8".....**$2.95**

208 VAC - DPST N.O.

Mfg. - MIDTEX
Mfg.# - 187-36M6V1
1-1/2" x 1-3/8" x 1-7/8"
Contact current: 25 amp @ 277 VAC
Coil resistance: 36,000 ohm

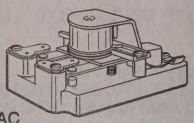
45-433.....**$3.95**

240 VAC - SPST N.O.

Mfg. - MIDTEX
Mfg.# - 188-34U1L1
Contact current:
30 amp 1 HP @ 120 VAC
15 amp @ 600 VAC
Coil resistance: 7400 ohm

45-558.....2" x 1-1/2" x 1-3/8".....**$3.49**

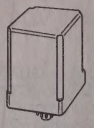
240 VAC DPST



Mfg. - GUARDIAN
Mfg.# - 2620U
Contact current:
25 amp @ 120/240 VAC
Coil resistance: 2000 ohm

45-653.....3-5/16" x 2-1/2" x 2".....**$9.95**

240 VAC DPDT



Mfg. - GUARDIAN
Mfg.# - 1410-2C-240A
10 amps @ 30 VDC/120 VAC
Coil resistance: 9110 ohm

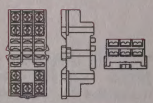
45-613.....2-1/8" x 1-3/8"sq.....**$1.95**

240 VAC - DPDT

Mfg. - FUJITSU
Mfg.# - FRL-261 A240/02CK-OE
1-1/4" x 1-1/8" x 3/4" w/ bracket case
Contact current: 10 amp @ 30 VDC/240 VAC
Coil resistance: 14K ohm. .18" blade terminals

45-520.....1-1/4" x 1-1/8" x 3/4".....**$3.95**

11-PIN SQUARE BASE SOCKET

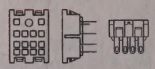


10 amps
300 volts
Panel/surface mount
DIN rail mountable
Pressure clamp screws

NTE

R95-115.....**$6.25**

14-PIN BLADE SOCKET

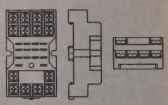


5 amps, 120 volts
Panel mount
Solder terminals
4PDT applications
Hold down clip

NTE

R95-122.....**$1.05**

14-PIN PANEL/SURFACE MOUNT

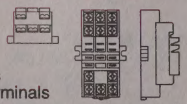


7 amps, 300 volts
Panel/surface mount
Pressure clamp screws
DPDT or 4PDT
Steel, nickel plated screws
Hold down clip

NTE

R95-106A.....**$6.95**

11-PIN SQUARE BASE SOCKET

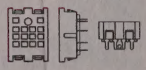


10 amps, 300 volts
Panel/surface mount
Pressure clamp screws
Accepts .187" blade terminals
Hold down clip

NTE

R95-105.....**$7.99**

14-PIN BLADE SOCKET

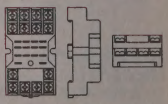


5 amps
120 volts
PC board mount
Hold down clip

NTE

R95-107.....**$1.25**

14-PIN PANEL/DIN RAIL SOCKET

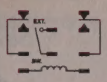
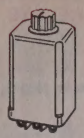


7 amps, 300 volts
Panel mount
DIN rail mountable
Pressure clamp screws
DPDT or 4PDT

NTE

R95-117.....**$6.95**

SOLID STATE TIME DELAY RELAYS

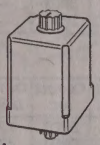



Mfg. - MIDTEX
2-1/4" x 1-1/2" x 1-3/8"
Electronic, delay-on-release timer. Uses R-C solid state trigger circuit which drives a secondary solid state switch. Knob adjust.

24 VDC 1.0-30 Seconds
Mfg.# - 612-43C200
10 amp, 28 VDC / 120 VAC
45-533.....**$19.95**

120 VDC 1-60 Seconds
Mfg.# - 612-43T300
10 amp, 28 VDC / 120 VAC
45-535.....**$19.95**

SOLID STATE TIME DELAY ON OPERATE



Mfg. - MIDTEX
8 pin octal
Knob adjust

24 VAC .6-60 Seconds
Mfg.# - 715-211AQ300
10 amp, 28 VDC / 120 VAC
45-541.....**$19.95**

24 VAC 1-180 Seconds
Mfg.# - 715-211AQ500
10 amp, 28 VDC / 120 VAC
45-542.....**$19.95**

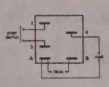
24 VAC 1-300 Seconds
Mfg.# - 715-211AQ600
10 amp, 28 VDC / 120 VAC
45-543.....**$19.95**

24 VDC .1-1 Second
Mfg.# - 715-211AC100
10 amp, 28 VDC / 120 VAC
45-546.....**$19.95**

24 VDC .1-10 Seconds
Mfg.# - 715-211AC200
10 amp, 28 VDC / 120 VAC
45-547.....**$19.95**

24 VDC 1-300 Seconds
Mfg.# - 715-211AC600
10 amp, 28 VDC / 120 VAC
45-548.....**$19.95**

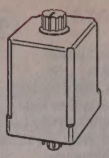
3 MINUTE RELAY TIMER



Mfg. - COXWELLS
Mfg.# - 3487
2" x 1-1/2" x 1-3/8"
Contact current: 20 amp, 3/4 HP
Spec sheet included. 120 VAC is connected to point A & B. Load source (motor, light, etc.) is connected to A & 4. 3 minute timer is started by using a n/o switch connected to points 1 & 5. Once energized by switch 1 & 5, relay contact tips make and the 3 minute sequence starts. At the end of the cycle the relay circuit opens up turning off the load source.1

45-560.....**$14.95**

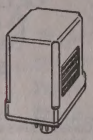
SOLID STATE TIME DELAY RELAY



Mfg. - MIDTEX
Mfg.# - 615-22Q400
10 amp, 24 VAC

24 VAC 1-100 Sec.
45-549.....**$19.95**

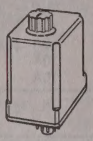
SOLID STATE TIME DELAY CYCLE TIMER



Mfg. - MIDTEX
Mfg.# - 658-44T400
10 amp

120 VAC 1-4095 Sec.
45-553.....**$19.95**

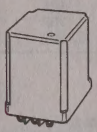
SOLID STATE TIME DELAY INTERVAL TIMER



Mfg. - MIDTEX
Mfg.# - 715-441AC200
10 amp

24 VDC .1-10 Sec.
45-554.....**$19.95**

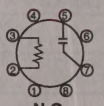
SOLID STATE TIME DELAY OPERATE

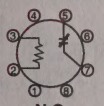


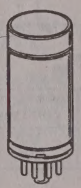
Mfg. - MIDTEX
Mfg.# - 614-12T4A6
5 amp, 1/8 HP, 20 VAC

120 VAC .1-120 Sec.
Ext Timing Res Approx 20K ohm per second
45-600.....**$19.95**

TIME DELAY RELAYS







Mfg. - MIDTEX
115 VAC input, SPST
1-1/4"dia x 2-1/8"H metal enclosure
5 amp @ 30 VDC/120 VAC contacts
Superior replacement for plug in timer

NORMALLY OPEN

Part#	Mfg's #	Delay In Seconds	Price
45-590	711-3A115	3	$19.95
45-591	711-5A115	5	$19.95
45-592	711-10A115	10	$19.95
45-593	711-30A115	30	$19.95
45-528	711-60A115	60	$19.95

NORMALLY CLOSED

45-595	711-10B115	10	$19.95
45-596	711-15B115	15	$19.95
45-597	711-45B115	45	$19.95
45-570	711-120B115	120	$19.95
45-598	711-180B115	180	$19.95

8-PIN OCTAL SOCKET

For KRP type relays.
Mounts in 1-1/8" hole with mounting ears 1-1/2" on center.

21-227.....**$1.49**

8-PIN OCTAL SOCKET

10 amps NTE
300 volts
Panel/surface mount
DIN rail mountable
Pressure clamp screws

R95-113.....**$3.85**

8-PIN OCTAL SOCKET

10 amps NTE
600 volts
Panel/surface mount
Pressure clamp screws
Steel, nickel plated screws

R95-101.....**$3.99**

11-PIN OCTAL SOCKET

Mfg. - MIDTEX
Mfg.# - DOCT-3T500
2-3/4" x 2-1/4" x 15/16"
For 11 pin octal relays and timers.
10 amp @ 300 volt

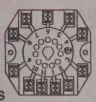
45-538.....**$3.99**

11-PIN OCTAL SOCKET

10 amps NTE
300 volts
Panel/surface mount
DIN rail mountable
Pressure clamp screws

R95-114.....**$5.25**

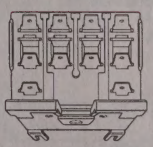
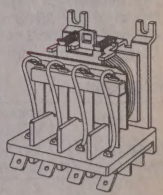
11-PIN OCTAL SOCKET



10 amps NTE
600 volts
Panel/surface mount
Pressure clamp screws
Steel, nickel plated screws

R95-104.....**$6.95**

120 VAC 4PST - N.O.

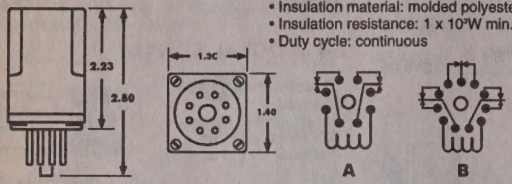



Mfg. - P&B
Mfg.# - PMT15AY
3" x 2-5/8" x 2-1/2
Contact current: 25 amp @ 240 VAC
Coil resistance: 120 ohm
1/4" contacts

45-655.....**$14.95**

GENERAL PURPOSE MULTICONTACT RELAYS

- Indicator lamp types (N-suffix)
- 8 pin and 11 pin octal plug-in types
- DPDT and 3PDT types
- Clear plastic dust cover
- Long life contacts
- Operating time: 25mS or less
- Release time: 20mS or less
- Insulation material: molded polyester
- Insulation resistance: 1 x 10⁹W min.
- Duty cycle: continuous



AC OPERATED

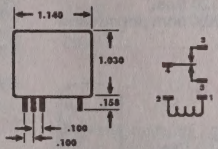
Part#	Fig.	Nominal Voltage	Contact Arr.	Coil Res. Ω (typ.)	Nominal Power	Contact Current @ 120 VAC (max)	Price Each
R02-11A10-12	A	12VAC	DPDT	----	2.0VA	10A	12.66
R02-11A10-24	A	24VAC	DPDT	----	2.0VA	10A	12.66
R02-11A10-120	A	120VAC	DPDT	----	2.0VA	10A	13.00
R02-11A10-120N	A	120VAC	DPDT	----	2.0VA	10A	16.85
R02-11A10-240	A	240VAC	DPDT	----	2.0VA	10A	13.17
R02-14A10-24	B	24VAC	3PDT	----	2.75VA	10A	15.51
R02-14A10-120	B	120VAC	3PDT	----	2.75VA	10A	15.94
R02-14A10-120N	B	120VAC	3PDT	----	2.75VA	10A	17.93

DC OPERATED

Part#	Fig.	Nominal Voltage	Contact Arr.	Coil Res. Ω (typ.)	Nominal Power	Contact Current @ 120 VAC (max)	Price Each
R02-11D10-12	A	12VDC	DPDT	120	1.0VA	10A	12.55
R02-11D10-24	A	24VDC	DPDT	470	1.0VA	10A	12.68
R02-11D10-110	A	110VDC	DPDT	10K	1.2VA	10A	13.55
R02-14D10-12	B	12VDC	3PDT	120	1.0VA	10A	15.75
R02-14D10-24	B	24VDC	3PDT	470	1.0VA	10A	15.75

UPRIGHT EPOXY SEALED POWER RELAYS

- High dielectric-4000 VRMS between control & switching circuits
- Cutt-off nib after PCB washing
- 94v-o enclosure
- Operating time: 15mS
- Release time: 10mS
- Switching rate: 5 operations per sec. (max.)
- Operating temperature: -40°C to +70°C

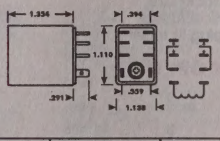


DC OPERATED

Part#	Nominal Voltage	Contact Arr.	Coil Res. Ω (typ.)	Nominal Power	Contact Current @ 28VDC (max)	Price Each
R24-5D10-12V	12VDC	SPDT	230	600mW	10A	5.38
R24-5D10-24V	24VDC	SPDT	920	600mW	10A	5.46

GENERAL PURPOSE RELAYS

- Plug-in or solder terminals, will also accept .187" faston terminals
- High reliability, 50 million operations
- Operating time: 25mS or less
- Release time: 25mS or less
- Duty cycle: continuous



AC OPERATED

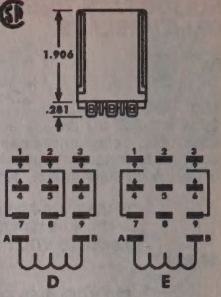
Part#	Nominal Voltage	Contact Arr.	Coil Res. Ω (typ.)	Nominal Power	Contact Current @ 120 VAC (max)	Price Each
R14-11A10-24	24VAC	DPDT	-------	1.2VA	10A	$8.19
R14-11A10-120	120VAC	DPDT	-------	1.2VA	10A	8.40

DC OPERATED

Part#	Nominal Voltage	Contact Arr.	Coil Res. Ω (typ.)	Nominal Power	Contact Current @ 28 VAC (max)	Price Each
R14-11D10-12	12VDC	DPDT	160	.9W	10A	$7.89
R14-11D10-24	24VDC	DPDT	650	.9W	10A	7.89

GENERAL PURPOSE RELAYS

- .187" 3-way terminals suitable for plug-in, solder and quick connect
- DPDT and 3PDT
- Clear see-thru cover
- Operating time: 20mS (DPDT), 24mS (3PDT)
- Release time: 28mS (DPDT), 26mS (3PDT)
- Duty cycle: continuous
- Operating temperature: -30°C to +50°C (AC) -30°C to +65°C (AC)



AC OPERATED

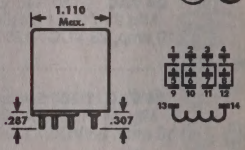
Part#	Fig.	Nominal Voltage	Contact Arr.	Coil Res. Ω (typ.)	Nominal Power	Contact Current @ 120 VAC (max)	Price Each
R10-14A10-24	D	24VAC	3PDT	----	2.75VA	11A	10.19
R10-14A10-120	D	120VAC	3PDT	----	2.75VA	11A	10.49

DC OPERATED

Part#	Fig.	Nominal Voltage	Contact Arr.	Coil Res. Ω (typ.)	Nominal Power	Contact Current @ 120 VAC (max)	Price Each
R10-11D10-12	E	12VDC	DPDT	120	1.2W	12A	8.44
R10-11D10-24	E	24VDC	DPDT	470	1.2W	12A	8.44
R10-14D10-12	D	12VDC	3PDT	120	1.2W	11A	9.77
R10-14D10-24	D	24VDC	3PDT	470	1.2W	11A	9.77

GENERAL PURPOSE RELAYS

- Slightly larger than 1 cubic inch
- High reliability, 50 million operations
- Plug-in or solder terminal
- Operating time: 25mS or less
- Release time: 25mS or less
- Duty cycle: continuous



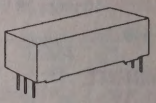
AC OPERATED

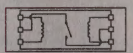
Part#	Nominal Voltage	Contact Arr.	Coil Res. Ω (typ.)	Nominal Power	Contact Current @ 120 VAC (max)	Price Each
R12-17A3-24	24VAC	4PDT	----	1.2VA	3A	12.70
R12-17A3-120	120VAC	4PDT	----	1.2VA	3A	12.70

DC OPERATED

Part#	Nominal Voltage	Contact Arr.	Coil Res. Ω (typ.)	Nominal Power	Contact Current @ 120 VAC (max)	Price Each
R12-17D3-12	12VDC	4PDT	160	.9W	.3A	10.89
R12-17D3-24	24VDC	4PDT	650	.9W	.3A	10.89

SPST - N.O. TELEPHONE LINE SENSE RELAY





Mfg. - TELTONE
Mfg.# - M-949
1-1/8" x 3/8" x 3/8"
Coil resistance: 20 ohms
Contact Current: 500 mA
When connected to the voice telephone lines it closes when the phone is picked up. This can be used to control monitoring (recording) of phone lines.

- Senses telephone line current from 18 to 126 mA.
- Achieves 63 dB min longitudinal balance.
- 1500 VDC coil to contact isolation
- RFI shielding

Comes with complete specifications.

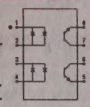
45-447.....$3.89

SOLID STATE MODULE

Mfg. - TELEDYNE, # SSPC76D1-1
Dip pack, Input: 9-60 VDC
Output: 5 VDC

45-338.....**$1.95**

SOLID STATE CURRENT SENSOR



Mfg. - CP CLARE, #LDA200
2 sensors. 100% current transfer ratio. V_{SAT} (V): .3, BV_{CEO}(V): 50. 100 mA continuous load rating. Ideal for telecommunication, instrumentation circuits and industrial controls where input to output electrical isolation is desired.

LDA200.....**$2.25**

2 AMP SOLID STATE

Mfg. - OPTO 22, #P240D2
1-3/8" x 1-1/2" x 5/16"
Control voltage: 3-32 VDC
Load: 2 amp @ 120-240 VAC
Zero voltage turn-on

45-394.....**$4.25**

3 AMP SOLID STATE

Mfg. - CRYDOM, #D2W203F
1-5/8" x 1-1/8" x 3/8"
Control voltage: 3-32 VDC. Load: 3 amp @ 24-280 VAC. 70 amp surge one cycle. Packaged in a hard skin-tight epoxy SIP pack.

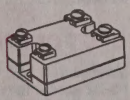
45-657.....**$3.95**

3 AMP SOLID STATE

Mfg. - MOTOROLA, #P240D3
1-3/8" x 1-1/2" x 3/8"
Control voltage: 3.6-6 VDC
Load: 3 amp @ 24-280 VAC
Zero voltage switching

45-391.....**$3.25**

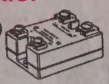
10 AMP SOLID STATE



Mfg. - LUMITROL CORP
Mfg.# - OPTO-2
2-1/4" x 1-3/4" x 7/8"
Control voltage: 14-28 VDC
Load: 10 amp @ 120V

45-658.....**$9.95**

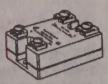
10 AMP SOLID STATE - N.O.



Mfg. - TELEDYNE, #615-2 (SSR)
2-1/4" x 1-3/4" x 7/8"
Control voltage: 3-32 VDC
Load: 10 amp @ 24-600 VAC
Zero voltage turn-on, SPST, N.O., SCR

45-647.....**$9.95**

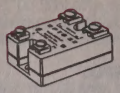
10 AMP SOLID STATE



Mfg. - CRYDOM, #D2410
2-1/4" x 1-3/4" x 7/8"
Control voltage: 3-32 VDC
Load: 10 amp @ 48-280 VAC
Normally open, zero voltage switching, SCR output

45-646.....**$9.95**

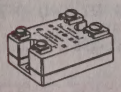
AC CONTROL SOLID STATE RELAYS



Mfg. - CONTINENTAL IND.
2-1/4" x 1-3/4" x 7/8"
Control voltage: 90-280 VAC
Turn-on voltage: 90 VAC
Turn-off voltage: 20 VAC
Output voltage range: 24-330 VAC
Photo isolation, 600V blocking voltage, 4000V isolation voltage, built-in snubber, high surge capability.

45-413.....**10 AMP**.....**$12.95**
45-414.....**25 AMP**.....**$14.95**
45-415.....**40 AMP**.....**$19.95**
45-416.....**75 AMP**.....**$28.95**

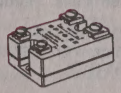
DC CONTROL SOLID STATE RELAYS



Mfg. - CONTINENTAL IND.
2-1/4" x 1-3/4" x 7/8"
Control voltage: 3-32 VDC
Turn-on voltage: 3 VDC
Turn-off voltage: 1 VDC
Output voltage range: 24-330 VAC
Photo isolation, 600V blocking voltage, 4000V isolation voltage, built-in snubber, high surge capability.

45-417.....**10 AMP**.....**$9.95**
45-418.....**25 AMP**.....**$14.75**
45-419.....**40 AMP**.....**$18.95**
45-420.....**75 AMP**.....**$26.95**

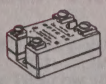
DC-DC 0-100 VDC OUTPUT SOLID STATE RELAYS



Mfg. - CONTINENTAL IND.
2-1/4" x 1-3/4" x 7/8"
Control voltage: 3.5-32 VDC
Turn-on voltage: 3.5 VDC
Turn-off voltage: 1 VDC
Output voltage range: 0-100 VAC
2500V isolation, high surge rating, compatible with most logic systems, wide control range.

45-421.....**8 AMP**.....**$23.95**
45-422.....**12 AMP**.....**$25.95**
45-423.....**20 AMP**.....**$29.95**
45-424.....**40 AMP**.....**$38.95**

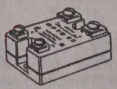
25 AMP SOLID STATE - N.C.



Mfg. - CRYDOM
Mfg.# - D1225-B
2-1/4" x 1-3/4" x 1"
Control voltage: 3-32 VDC
Load: 25 amp @ 48-280 VAC
Zero voltage turn-on. SPST, N.C., SCR output

45-611.....**$19.95**

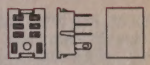
50 AMP SOLID STATE



Mfg. - P & B
Mfg.# - SSR-240A50
2-1/4" x 1-3/4" x 1"
Control voltage: 90-280 VAC
Zero voltage turn-on. SPST, N.O.
SCR output

45-601.....**$19.95**

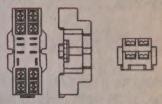
8-PIN MIDGET BLADE SOCKET



10 amps, 300 volts
Panel mount
Solder terminals
Accepts .187" blade terminals
Hold down clip

R95-111.....**$1.69**

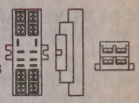
8-PIN MIDGET BLADE SOCKET



10 amps
300 volts

R95-121.....**$4.99**

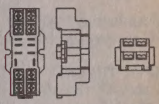
8-PIN MIDGET BLADE SOCKET



10 amps, 300 volts
Panel/surface mount
Pressure clamp screws
Accepts .187" blade terminals
Hold down clip

R95-110.....**$6.49**

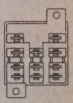
8 BLADE DPDT



Mfg. - P&B
10 amps
300 volts

27E887.....**$3.95**

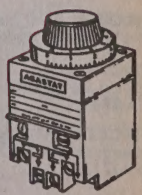
3PDT SQUARE BASE SOCKET



Mfg. - P&B
For KUP, KUEP, KUGP, KUIP and KUMP relays through 3 poles. .187" quick connect .144" PC mount. 11 pin sockets

27E046.....**$ .75**

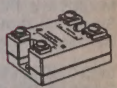
120 VAC INDUSTRIAL ELECTROPNEUMATIC TIMING RELAY



Mfg - AGASTAT
Mfg.# - 7022AA
4-1/2" x 2-3/4" x 2-1/2"
120 VAC 60Hz
110 VAC 50Hz
DPDT, OFF-Delay
.1 to 1 second
MIL spec

45-659.....**$39.95**

110 AMP SOLID STATE



Mfg. - P & B
Mfg.# - SSR-240D110
Control voltage: 3-32 VDC
Load: 110 amp @ 120-240 VAC
Zero voltage turn-on.
SPST, N.O. SCR output.

45-348.....**$49.95**

SUB MINIATURE TOGGLE

Mounts in a 3/16" hole
Solder lug terminals
Hardware included

SPDT ON-ON
3 amp @ 125 VAC
51-212.....$1.09

DPDT ON-ON
3 amp @ 125 VAC
51-213.....$1.29

SPDT TOGGLE

Mounts in a 1/4" hole. Solder lug terminals. Hardware included

SPDT ON-ON

	(1-249)	(250-Up)
6 amp @ 125 VAC		
51-268	$ .75	$ .59

SPDT MOMENTARY
6 amp @ 125 VAC
51-289.....$ .79

SPDT ON-OFF-ON, CENTER OFF

	(1-249)	(250-Up)
6 amp @ 125 VAC		
51-269	$ .89	$ .65

PC TERMINAL TOGGLE

Mounts in a 1/4" hole
PC terminals. Hardware included

SPDT ON-ON

	(1-249)	(250-Up)
5 amp @ 125 VAC		
SW12PC	$ .79	$ .75

DPDT ON-ON

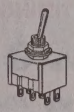
	(1-249)	(250-Up)
5 amp @ 125 VAC		
SW13PC	$ .75	$ .59

LIGHTED TOGGLE

Mfg. - SWAN
Mounts in a 1/2" hole
1/4" quick tab hook-up
12 VDC red illuminated handle

SPST
51-378A.....$2.29

DPDT TOGGLE



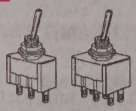
Mounts in a 1/4" hole. Solder lug terminals. Hardware included

DPDT ON-ON
5 amp @ 125 VAC
51-270.....$ .45

DPDT ON-OFF-ON, CENTER OFF

	(1-249)	(250-Up)
6 amp @ 125 VAC		
51-271	$1.25	$1.09

MOMENTARY -OFF- MOMENTARY TOGGLE



Center off
Mounts in a 1/4" hole
Solder lug terminals
Hardware included

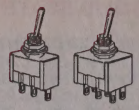
SPDT MOM-OFF-MOM

	(1-99)	(100-Up)
6 amp @ 125 VAC		
51-219	$1.50	$1.35

DPDT MOM-OFF-MOM

	(1-99)	(100-Up)
6 amp @ 125 VAC		
51-220	$1.75	$1.59

ON-OFF-MOMENTARY TOGGLE



Mounts in a 1/4" hole
Solder lug terminals
Hardware included

SPDT
6 amp @ 125 VAC
51-386.....$1.50

DPDT
6 amp @ 125 VAC
51-387.....$1.75

MOMENTARY-OFF-MOMENTARY TOGGLE

Mfg. - CK, #7105
Mount in a 1/4" hole
Solder lug terminals
Hardware included

SPDT (ON) -OFF- (ON)
.4vA max
51-396.....$1.35

4PDT CENTER OFF TOGGLE

Mfg. - CK, #7403
Mounts in a 1/4" hole. Solder lug terminals. Hardware included

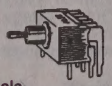
ON-OFF-ON
.4 vA max
51-367.....$4.95

4PDT CENTER OFF

Mfg. - JBT
Mounts in a 1/4" hole. Solder lug terminals. Hardware included

ON-OFF-ON
5 amp @ 125 VAC
51-310.....$5.95

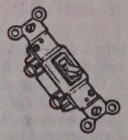
4PDT TOGGLE



Mfg. - ALCO
Mfg.# - TT41PGRA1
Mounts in a .19" hole. PC terminals, right angle, bushing is non-threaded.

4PDT, ON-NONE-ON
.4vA max @ 20 VDC or peak AC
91-344.....$ .45

SPST WALL SWITCH



Mfg. - LEVITON
Mfg.# - 1330
Brown SPST standard wall switch. 5 amp @ 250 V
10 amp @ 125 VAC

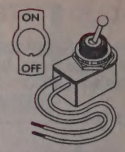
51-223.....$ .19

SILENT WALL SWITCH

Mfg. - LEVITON
Mfg.# - 2281451B
Brown SPST silent wall switch
15 amp @ 120 VAC
Features side or push in wiring
(Accepts #12 & #14 solid wire)

51-224.....$ .39

SPST TOGGLE



Mounts in a 1/2" hole
6" long wire leads
Hardware included

SPST ON-OFF
6 amp @ 125 VAC

51-378.....$1.25

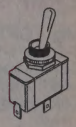
SPST TOGGLE

Mounts in a 1/2" hole
Solder tab terminal
Hardware included

SPST ON-OFF

	(1-99)	(100-Up)
4 amp @ 125 VAC		
51-379	$ .99	$ .89

SPST TOGGLE SWITCH



Mfg. - CARLING, #2FA53-73
Mounts in 1/2" hole
1/4" tabs quick connect
Hardware included

SPST ON-OFF
15 amp @ 125 VAC
51-391.....$1.49

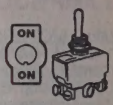
DPST TOGGLE

Mounts in a 1/2" hole
Solder lug terminals
Hardware included

DPST ON-OFF

	(1-99)	(100-Up)
4 amp @ 125 VAC		
51-321	$1.10	$ .95

DPDT TOGGLE

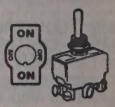


Mounts in a 1/2" hole
#6-32 screw terminals
Hardware and ON/ON plate included.

DPDT ON-ON

	(1-99)	(100-Up)
10 amp @ 125 VAC		
51-322	$1.75	$1.49

DPDT CENTER OFF

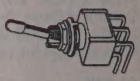


Mounts in a 1/2" hole
#6-32 screw terminals
Hardware included
Includes On/Off/On plate

DPDT ON-OFF-ON

	(1-99)	(100-Up)
10 amp @ 125 VAC		
51-225	$1.99	$1.75

DPDT LOCKING TOGGLE



Mfg. - C&K, #7201
PC right angle mount
Hardware included

DPDT
5 amp @ 120 VAC
91-246.....$ .60

LEVER SWITCH

Mfg. - CK, #7115CK
Small lever handle
Panel mounted switch

SPDT ON-ON
5 amp @ 120 VAC
51-272.....$ .45

SPST - N.O. PUSH BUTTON

Normally open momentary switch with red button. Mounts in 5/16" dia hole. Hardware included.

3 amp @ 125 VAC
51-244.....$ .25

SPST - N.C. PUSH BUTTON

Normally closed momentary switch with black button. Mounts in a 5/16" dia hole. Hardware included.

3 amp @ 125 VAC
51-340.....$ .29

SPST - N.C. PUSH BUTTON

Mfg. - ALCO
Mfg.# - MSPS-103B
Normally closed momentary switch with black button. Mounts in a 5/16" dia hole. Silver plated brass contacts. Hardware included.

51-388.....$ .49

SPDT PUSH BUTTON

Mfg. - JBT
5/8" x 1/2" x 1/4" body. Mounts in 1/4" hole. Hardware included. Green body, black button. PC terminals.

SPDT, 6 amp @ 125 VAC *New*
51-394.....$1.49

SPST - N.O. PUSH BUTTON

Normally open momentary switch
Round button, low profile.
Contact resistance 100M ohm max.
Insulation resistance 50M ohm (DC 100V).

20 mA @ 15 VDC	*(1-99)*	*(100-Up)*
51-179	$ .20	$ .18

SPST - N.O. PUSH BUTTON

Normally open momentary switch with red button. Mounts in a 3/4" hole.

SPST

3 amp @ 125 VAC	*(1-99)*	*(100-Up)*
51-249	$ .99	$ .89

SPST - N.O. PUSH BUTTON

Normally open momentary switch. Metal body with red button. Mounts in a 5/8" hole. Solder lug terminals. Hardware included.

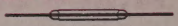
3 amp @ 125 VAC
51-359.....$ .99

SPST - N.O. PUSH BUTTON

Normally open momentary switch with red button. Mounts in a 1/2" hole. Solder lug terminals. Hardware included.

3 amp @ 125 VAC
51-344.....$ .99

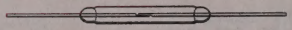
MINI N.O. REED SWITCH



Mfg. - HAMLIN
SPST, N.O. magnet actuated.
Hermetically sealed glass reed switch.

.57" glass length - .096" dia
51-390.....$ .30

REED SWITCHES



Single pole, normally open, magnet actuated.
Hermetically sealed glass reed switches.

.854" glass length - .115" dia
51-301.....$ .19

1.095" glass length - .15" dia
51-241.....$ .19

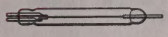
1.097" glass length - .15" dia
51-206.....$ .19

1.14" glass length - .147" dia
51-144.....$ .19

1.153" glass length - .1" dia
51-208.....$ .19

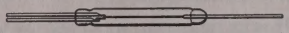
1.44" glass length - .199" dia
51-145.....$ .19

SPDT REED SWITCH



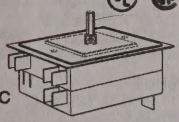
Mfg. - HAMLIN
Mfg.# - DRR-DTH
.2" dia x 1.4" glass length. 50-80 ampere turn pull-in range. Form C dry reed switch. Hermetically sealed

51-343.....$ .25



51-348.....$ .45

6 POSITION ROTARY SWITCH



Mfg. - ARK-LES
2" x 1" x 1-5/8"
1/4" dia x 1/2" shaft
20 amp @ 120-240 VAC
1/4" quick connect

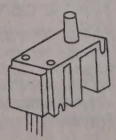
51-384.....$2.95

SPST N.O. PUSH BUTTON

Mfg. - CARLING
Normally open momentary.
Mounts in a 1/2" hole. 6" wire leads. Hardware included

6 amp @ 125 VAC
51-368.....$1.25

PRESSURE TRANSDUCER



Mfg. - MICROSWITCH
Mfg.# - 125PC15G114
Pressure gauge range: 0-15 psi
10V, 2 amp excitation, bridge resistance 5K ohm, spec sheet included.

90-250.....$4.95

DIP SWITCHES

4 POSITION

Low profile recessed actuators
51-320.....$ .49

Extended actuators
51-337.....$ .59

Piano style
51-376.....$ .69

Low profile rocker actuators
51-392.....$ .69

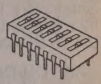
5 POSITION

Rocker actuators
51-360.....$ .69

6 POSITION

Piano style
51-318.....$ .69

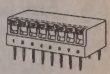
7 POSITION



Low profile recessed actuators
51-319.....$ .75

Piano style
51-377.....$ .69

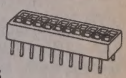
8 POSITION



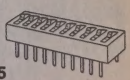
Piano style
51-273.....$ .75

Slide actuators
51-385.....$ .85

10 POSITION

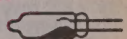


Slide actuators
51-389.....$ .85



Rocker actuators
51-393.....$ .85

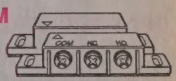
MERCURY TILT SWITCH



5/8" x 1/4" dia. with 7/8" leads
Rated @ 750mA

	(1-99)	*(100-Up)*
51-334	$ .75	$ .69

MAGNETIC ALARM SWITCH



For use on windows or doors as detectors for alarm systems. Contains both N/O and N/C contacts.

51-351.....$2.49

SPST LIGHTED ROCKER

Snap into 1" x 1/2" hole
125 VAC red lamp. 1/4" quick connect

SPST ON-OFF
16 amp @ 125 VAC
51-259.....**$ .75**

SPST LIGHTED ROCKER

Snap into 1-1/8" x 1/2" hole
125 VAC green lamp
3/8" quick connect

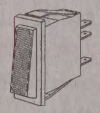
SPST ON-OFF
15 amp @ 125 VAC
51-345.....**$ .75**

SPST LIGHTED ROCKER

Snap into 7/16" x 1-1/4" hole
125 VAC lamp
3/8" quick connect

SPST ON-OFF
20 amp @ 125 VAC
51-330.....Red.....**$ .75**
51-331.....Green.....**$ .75**

SPST LIGHTED ROCKER



Mfg. - SWANN
Snap into a 1-1/16" x 7/16" hole
125 VAC amber lamp
3/8" quick connect

SPST ON-OFF
15 amp @ 125 VAC (UL)
51-356.....**$ .75**

DPST ROCKER

(UL) (CSA)

Mfg. - CARLINGSWITCH
Heavy duty snap-in rocker.
Snap mounts in a 1-1/2"
x 3/4" hole. 1/4" quick connect

DPST ON-OFF
10 amp @ 250 VAC
51-361.....**$1.25**

SPDT ROCKER

Mfg. - C&K, #7101
1/2" x 1/4", 15/16" mounting centers
PC terminals. Red body, blue switch.

SPDT ON-ON
5 amp @ 120 VAC
51-317.....**$ .69**

SPDT ROCKER

5/8" x 3/8" body
1" Mounting centers. Solder cup

SPDT ON-ON
6 amp @ 125 VAC
51-255.....**$ .59**

DPDT ROCKER

5/8" x 1/4"
1" mounting centers. Solder cup

DPDT ON-ON
6 amp @ 125 VAC
51-295.....**$ .99**

MICRO SWITCHES

Mfg. - OMRON, #SS-01-F
3/4" x 1/4" x 3/8"
Mounting centers .374".
Solder style terminals.

SPDT
.1 amp @ 125 VAC
51-197.....**$ .24**

Mfg. - OMRON
1-1/8" x 3/8" x 5/8"
Button actuator.
Normally open or normally closed.
.187" quick connect terminals.

	(1-99)	*(100-Up)*
SPDT		
.1 amp @ 125 VAC		
51-369.....	**$ .59**	**$ .49**

Mfg. - CHERRY
1/2" x 1/4" x 1/4"
Lever actuator

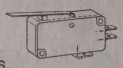
SPDT (UL) (CSA)
50mA @ 30 VDC
51-374.....**$ .24**

Mfg. - MATSUSHITA
1-1/8" x 3/8" x 5/8"
1-1/4" actuator
.187" quick connect terminals

SPDT (UL) (CSA)
1 amp @ 250 VAC
51-364.....**$ .75**

Mfg. - OMRON
Mfg.# - SS-5GL13D (UL) (CSA)
3/4" x 3/8"
Lever actuator with semicircle tip.
Quick connect terminals.

	(1-99)	*(100-Up)*
SPDT		
5 amp @ 125 VAC		
51-128.....	**$ .75**	**$ .69**



Mfg. - DEFOND
1-1/8" x 3/8" x 5/8"
1-1/16" actuator
.187" RA quick connect terminals.

SPDT (UL)
11 amp @ 125 VAC
51-355.....**$ .99**

Mfg. - CHERRY, #E63
3/4" x 1/4" x 3/8"
1/4" quick connect

SPST, Normally Open (CSA)
.1 amp @ 125 VAC
51-313.....**$ .15**

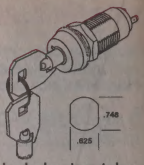
Mfg. - OMRON, #D2F-01-T
1/2" x 1/4" x 5/16"
PC terminals

SPDT
3 amp @ 125 VAC
51-257.....**$ .49**

Mfg. - CK
1-1/16" x 5/8" x 3/8"
1" lever actuator with roller
Actuator

SPDT (UL) (CSA)
1 amp @ 30 VDC/125 VAC
51-395.....**$ .99**

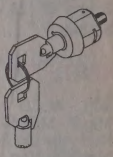
SPST KEY SWITCH



Rated 4 amp @ 125 VAC.
Chrome finish zinc die cast housing with brass spindle. Radial 7 pin tumbler. Features spring bolt cylinder with pop-out handle. 2 positions 90° turn, with key removable in both positions. Includes two tubular keys (with insulated handles) and mounting hardware. Hook-up by .25" quick connect.

51-380.....**$4.75**

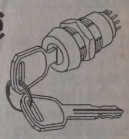
ACE® KEY LOCK



Mfg. - CHICAGO LOCK
Mounts in a double D cut 3/4" dia. hole. High security round keys can not be duplicated. Each lock keyed differently and includes two keys and a "U" clip for mounting. Actuator (bail) not included.

91-195.....**$1.99**

KEY SWITCH



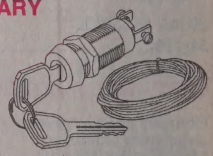
(UL) (CSA)

Mfg. - C&K, #0686
Key is removable in position 1 only. Mounts in a 3/4" hole. Rated 4 amp @ 125 VAC, 2 amp @ 250 VAC. Solder terminal. All switches are keyed differently. Includes two keys.

Position	*Contact connects to*	*Contact*
1:	2	3
2:	2	1
3:	1	8
4:	8	7

51-332.....**$2.95**

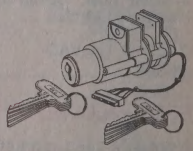
N.O. MOMENTARY KEY SWITCH



Mfg. - CHICAGO LOCK
O.A. Size: 2-1/2"(L) x 7/8"dia head
Rated to 3 amp.
Mounts in 3/4" hole "Double D" up to one inch thick. Double cut key removes in the off position only and turn 90° clockwise. Includes two keys (all switch's keyed differently). All mounting hardware and 25 feet of 2 conductor 22 AWG hook-up wire (24V plastic covered). Retailed display packed.

51-383.....**$1.95**

CASH REGISTER SWITCH

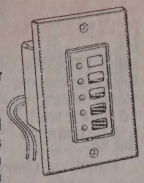


Each switch is keyed differently. Each key switch comes complete with two sets of four keys (2 pass, 2 reg, 2 "X" and 2 zero). Six 7" long color coded wires come from either wafer terminate in phenolic connector. Mounting holes 1" on center.

CASH.....**$1.99**

4-LEVEL FAN CONTROL

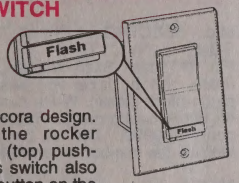
Decora The designer collection



Mfg. - LEVITON
This sleek design is solid state, ultra-quiet, and has built-in lights to indicate fan setting and features a touch of a button control. Fits any standard outlet, may be ganged together. Color is white and includes matching wall plate.

6162-WSP.....**$6.99**

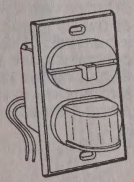
EMERGENCY FLASHER DECORA SWITCH



Mfg. - LEVITON
Mfg.# - 911
SPST sleek Decora design. In addition to the rocker action push-on (top) push-off (bottom) this switch also has a red flash button on the bottom of the switch. Use this switch on your front porch light and when the flasher switch is pushed on it will flash your porch light on and off to help emergency units find your house faster. Wall plate included.

51-382.....Ivory.....**$9.95**

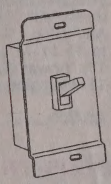
MOTION ACTIVATED SECURITY SWITCH/ DIMMER



Mfg. - HONEYWELL
Mfg.# - CL850F-1007
Rated 300 watt,
120 VAC/60 Hz
Incandescent only Replaces single pole light switch. Turns on light when you enter the room. Adjustable sensitivity and turn-off delay, lamp dimming and manual over-ride. 25ft range.

51-294.....**$9.95**

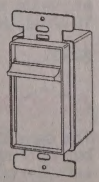
TOGGLE DIMMER



Mfg. - LEVITON
Mfg.# - 6641-WSP-WHITE
SPST, rated 600W 120 VAC, fits any standard toggle wallplate. Has continuous brightness control with on/off toggle action. Incandescent only.

6641-W.....**$4.95**

DECORA SLIDE DIMMER

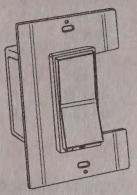


Mfg. - GE
1-5/8" x 2-5/8"
Rated 120 VAC, 75 V, 600 watts. For incandescent lighting only. Single pole slide. White. Preset on/off switch. Can be installed in series. Comes with complete wiring instructions. Wall plate not included.

51-284.....3-way.....**$3.99**

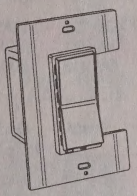
DECORA DIMMERS

Mfg. - LEVITON
The latest in microprocessor technology. MicroDim controls full variable (multi-level) dimming from dim to full bright in a single switch. Rated 600 watt, 120 volt rocker switch with action on/off and dim/bright control. Compact size fits standard wall box (wall plates not included).



Press and hold rocker until desired lighting level is reached. A preset adjustment is featured on the left corner. ***Incandescent*** only.

10600-W.....White.....**$3.25**
10600-I.....Ivory.....**$3.25**



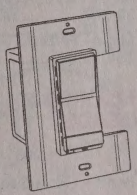
Press and hold rocker until desired lighting level is reached. A preset adjustment is featured on the left corner. This microprocessor controlled switch has LED indicators along the side indicating the levels. ***Incandescent*** only.

10601-W.....White.....**$3.49**
10601-I.....Ivory.....**$3.49**

10601-W-BP....White (wall plate included).....**$3.95**
10601-I-BP.....Ivory (wall plate included).....**$3.49**

Press and hold rocker until desired lighting level is reached. A preset adjustment is featured on the left corner. This microprocessor controlled switch has LED indicators along the side indicating the levels. ***Inductive*** 600vA-120V.

10671-A.....Almond.....**$4.95**
10671-000.....Brown.....**$4.95**



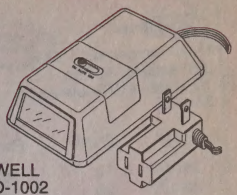
Press and hold rocker until desired lighting level is reached. A preset adjustment is featured on the left corner. This microprocessor controlled switch has LED indicators along the side indicating the levels. ***Incandescent*** only. Separate on-off switch just below the rocker switch.

10601-PI.....Ivory.....**$3.49**
10601-PA.....Almond.....**$3.49**
10601-PGY.....Gray.....**$3.49**
10601-PE.....Black.....**$3.49**

Press and hold rocker until desired lighting level is reached. A preset adjustment is featured on the left corner. This microprocessor controlled switch has LED indicators along the side indicating the levels. ***Inductive*** 600vA-120V.Separate on-off switch just below the rocker switch.

10671-PA.....Almond.....**$4.95**
10671-P.....Brown.....**$4.95**

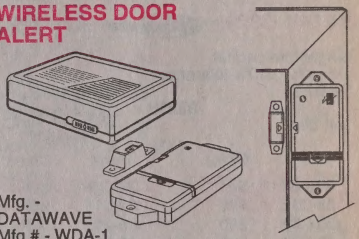
MOTION ACTIVATED SECURITY CONTROL



Mfg. - HONEYWELL
Mfg.# - CL850D-1002
4-1/4" x 2-1/2" x 1-1/4"
Table top passive infrared detector (PIR) turns on light or small appliance when it detects motion of warm bodies within 15ft. Adjustable time switch from 3-30 minutes, sensitivity switch and override switch for normal operation. Rated to 400 watts. NOT for fluorescent lights or motor driven equipment.

75-330.....**$9.95**

WIRELESS DOOR ALERT



Mfg. - DATAWAVE
Mfg.# - WDA-1
Install the door sensor/transmitter at any door or gate wish to monitor and turn on the portable receiver. When the door is opened the receiver will produce a highly audible chime time. Ideal for freight doors, will-call counters and as an entry alert for offices or rental stores. The receiver is totally portable and works up to 100 feet.

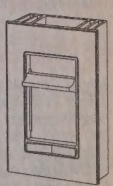
75-251.....**$9.95**

WIRELESS SOUND EXTENDER

Mfg. - DATAWAVE, #WSE-1
The transmitter picks up a sound and then sends a signal to the receiver (up to 100 feet). No wiring required. Set the transmitter unit near your door chime, telephone, baby's crib, etc., either hang on the wall or set on any table. Never miss another visitor, delivery, telephone call or baby's cry. Can be used as part of a security system to monitor "out of the way" areas. Both the transmitter and the receiver are 3-3/8" x 2-3/8" x 7/8" and require two "AA" batteries each.

75-250.....**$5.99**

SLIDE DIMMER



Mfg. - LEVITON, #71113-E
3" wide x 4-3/4" tall
Rated 1,000 VA, 120 V, 60 Hz (AC only). Incandescent only. Black, single pole architectural. Slide dimmer with preset on-off switch. Can be installed in series. Comes with complete wiring diagram. Mounts in a standard switch box on a wall.

51-246.....**$2.99**

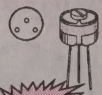
MODEL 3299W

$1.35

Multi-turn cermet
3/8" square, 25 turn
1/2 watt - ±10% tolerance
Sealed

Part#	Ohms	Part#	Ohms
38-176	10	38-146	20K
38-177	20	38-180	25K
38-178	50	38-147	50K
38-142	100	38-148	100K
38-179	200	38-181	200K
38-124	500	38-182	250K
38-143	1K	38-149	1 Meg
38-144	2K	38-183	2 Meg
38-151	5K	38-184	5 Meg
38-145	10K		

MODEL 3329



$1.15

Single-turn cermet
1/2 watt - ±10% tolerance
Sealed

3329H

1/4" dia

Part#	Ohms	Part#	Ohms
38-201	50	38-209	20K
38-202	100	38-210	25K
38-203	200	38-211	50K
38-204	500	38-212	100K
38-205	1K	38-213	200K
38-206	2K	38-214	250K
38-207	5K	38-215	500K
38-120	10K	38-216	1 Meg

3329P

1/4" dia

Part#	Ohms	Part#	Ohms
38-185	50	38-193	20K
38-186	100	38-194	25K
38-187	200	38-127	50K
38-188	500	38-196	100K
38-189	1K	38-197	200K
38-190	2K	38-198	250K
38-191	5K	38-200	1 Meg
38-192	10K		

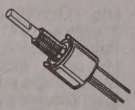
MODEL 3296W

$1.35

25 turn cermet
3/8" square
1/2 watt - ±10% tolerance. Sealed

Part#	Ohms	Part#	Ohms
38-230	200	38-237	20K
38-229	5K		

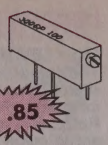
5K OHM LINEAR POT



Mfg. - Clarostat
Mfg.# - CM46434
392JB series
5K ohms, ±10% tolerance
.5 watt, 350 WVDC
1/4" plastic bushing. 1/8" dia. x 5/8" long FMS D-shaped shaft. PC type terminals. Hardware included.

	(1-99)	(100-up)
CM46434	$2.50	$2.00

MODEL 3006P



$ .85

15-turn cermet
3/16" x 3/4" rectanglar
1/2" overall height
3/4 watt - ±10% tolerance
Sealed

Part#	Ohms	Part#	Ohms
38-128	10	38-103	5K
38-129	20	38-135	10K
38-130	50	38-136	20K
38-131	100	38-137	50K
38-132	200	38-138	100K
38-133	500	38-139	200K
38-102	1K	38-140	1 Meg
38-134	2K	38-141	2 Meg

MODEL 3386

$ .75

Single-turn cermet
3/8" square, 1/2 watt
±10% tolerance

3386F

Part#	Ohms	Part#	Ohms
38-104	20K	38-243	2K
38-241	200	38-244	10K
38-242	500		

3386P

Part#	Ohms	Part#	Ohms
38-152	50	38-159	20K
38-153	100	38-160	50K
38-154	500	38-161	100K
38-155	1K	38-105	200K
38-156	2K	38-163	500K
38-157	5K	38-164	1 Meg
38-158	10K	38-165	2 Meg
38-121	15K		

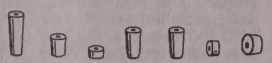
CLAROSTAT TRIMPOTS

Mfg. - CLAROSTAT
1/2 watt, 350 WVDC
1/8" dia. shaft, 1/4" locking bushing
5/8" screwdriver slotted shaft
Plastic military pot with stainless steel cover.
10% tolerance. Hardware included.

Mfg.# - RV6LAYSA102A
38-249.....1K ohm.....$3.99

Mfg.# - RV6LAYSA503A
38-250.....50K ohm.....$3.99

FERRITE BEADS



FB FM FZ FT FE FY FP

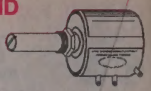
Part#	Hole Size	Length	Dia.	Price
FB	.043"	3/64"	3/32"	$.15
FM	.047"	1/32"	3/16"	.15
FZ	.047"	1/8"	1/8"	.15
FT	.047"	1/4"	1/8"	.15
FE	.080"	1/4"	5/32"	.15
FY	.1093"	1/16"	7/32"	.15
FP	.184"	1/8"	3/8"	.15

EGG TYPE STRAIN INSULATOR

White glazed porcelain egg type strain insulator.

80-258.....$ .49

10 TURN WIREWOUND POTENTIOMETER



$9.99

Mfg. - SPECTRO, #534-1-1
Equiv. to Bourns 3540S
Panel mount; stainless shaft
10 turn, 2 watt, 7/8" dia
±10% tolerance

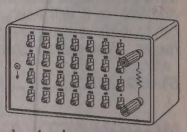
Part#	Ohms	Part#	Ohms
38-166	100	38-171	5K
38-167	200	38-172	10K
38-168	500	38-173	20K
38-169	1K	38-174	50K
38-170	2K	38-175	100K

15-TURN DIGITAL SCALE

Mfg. - SPECTROL, #15-2-11
1-3/4"H x 1"W x 1"L
For 1/4" shaft. Satin clear anodized finish. Knob, bezel and base are matte black plastic. White numerals on black background. Four digits count to 9999. The left two digits indicate the number of completed turns.

39-174.....$9.95

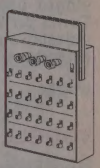
RESISTANCE DECADE BOX



Mfg. - GC
6" x 3-5/8" x 2-1/8"
7 decade resistance selector with a range of over 11 meg ohms in 1 ohm increments. This eliminates the guess work in determining the appropriate resistance values. Output via two color coded binding post. Slide switches are used to change resistance values power 1/2 watt, ±1% tolerance.

47-169.....$49.95

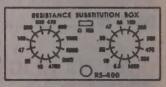
1% - 1 WATT RESISTOR SUBSTITUTION BOX



Mfg. - ELENCO, #RS-500
6-3/4" x 4-1/8" x 1-3/4"
Find the resistance you need for critical circuits or calibrating a meter with this professional unit. Any value 1% resistor from 1 ohm to 11.111M ohm increments. Accuracy 1%, power 1W: 0-99K ohm and 1/2W: 100K-11+Meg ohm

RS-500.....$49.95

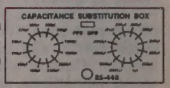
RESISTOR SUBSTITUTION BOX KIT



This resistor substitution box kit contains 24 different value resistors from 10 ohm to 1 meg.

K-37.....$13.50

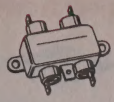
CAPACITOR SUBSTITUTION BOX KIT



This capacitor substitution box kit contains 12 different value capacitors from 100pfd to .1MFD.

K-38.....$13.50

EMI FILTER

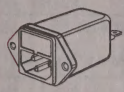


Mfg. - CORCOM
1-3/4" x 15/16" x 5/8"
120/250 VAC, 50/60 Hz
1/4" quick connect in/outputs

1 AMP Mfg.# - 1VB1
27-183.....$1.99

2 AMP Mfg.# - 2VB1
27-184.....$2.25

2 AMP FUSED FILTER



Mfg. - SCHAFFNER
Mfg.# - F365-2/05
1-7/8" x 1-1/4" x 1-1/8"
IEC 3 prong input, quick-connect output

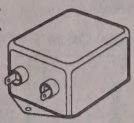
27-186.....$3.95

3 AMP

Mfg. - DELTA
2-1/4" x 1" x 1"
3 amp @ 115/250V, 50/60 Hz
IEC 3 prong input, quick-connect output

27-167.....$1.49

5 AMP



Mfg. - CORCOM, #F4007
2-1/2" x 2" x 1-1/2"
5 amp @ 120/250 VAC, 50/60 Hz
1/4" quick connect in/outputs

27-185.....$2.49

6 AMP

Mfg. - DELTA
3-1/2" x 2" x 1"
6 amp @ 115/230 VAC, 50/60 Hz
IEC 3 prong input, quick-connect output

27-148.....$1.75

10 AMP

Mfg. - DELTA ELECTRONICS
Mfg.# - 10GEEG3E
2-1/4" x 2" x 1"
10 amp @ 115/250 VAC, 50/60 Hz
IEC 3 prong input, quick-connect output

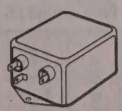
27-173.....$1.99

10 AMP

Mfg. - DELTA ELECTRONICS
Mfg.# - 10DEEG3B
2-1/4" x 2" x 1"
10 amp @ 115/250 VAC, 50/60 Hz
IEC 3 prong input, three 6" prewired output.

27-181.....$2.25

10 AMP



Mfg. - CORCOM
Mfg.# - 10ER1
2-1/2" x 2" x 1-1/2"
10 amp @ 120/250V
1/4" quick connect input/output

27-187.....$3.49

DIP IC HEAT SINK

For 14 or 16 Pin
Held on top w/ epoxy

26-139.....$ .09

LOW PROFILE HEAT SINK FOR TO-220

Mfg. - THERMALLOY, #6079
3/4" x 9/16" x 1/2"

26-434.....$ .12

TO-220 HEAT SINK

Mfg. - THERMALLOY
Mfg.# - 6023
1-3/16" x 7/8" x 1/4"
TO-220 cast style. Maximum cooling style. Vertical mount. Solder tab.

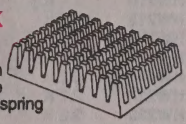
26-377.....$ .12

LOW PROFILE HEAT SINK FOR TO-220

3/4" x 1/2" x 3/8"

(1-99) (100-Up)
26-361.....$ .20.....$ .19

PGA HEAT SINK



Mfg. - THERMALLOY
For CPU and other pin grid LSI chips. May be attached with epoxy or spring clips (not included).

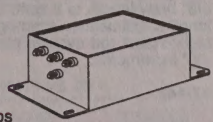
26-362.....1-1/4" sq x 1/2".....$ .49
26-363.....1-3/4" sq x 1/2".....$ .99

30 AMP HIGH PERFORMANCE RFI POWER LINE FILTER

Mfg. - CORCOM
Mfg.# - 30VSK6C
3" x 3" x 2-5/8"
30 amp @ 120/250 VAC, 50/60 Hz
10-32 stud mount

27-182.....$19.95

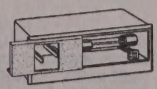
30 AMP



Mfg. - SCHAFFNER
7" x 5" x 3-1/2", 9 lbs
380/220V, 50/60 Hz, 3 phase
Hook-up via 10-32 studs

27-165.....$19.95

POWER INPUT MODULE



Mfg. - POTTER
Mfg.# - 7100-0002
Panel mount IEC line cord receptacle with 6 amp RFI & EMI filter, fuse holder (for standard AGC fuse) and voltage selector. Selection of 100, 115, 120, 220, 230 & 240 VAC.

27-135.....$3.99

TO-220 HEAT SINK

1-1/2" x 1"
TO-220 case style

(1-99) (100-Up)
26-379.....$ .25.....$ .19

TO-220 HEAT SINK

2" x 1-5/8" x 3/4"
TO-220 case style
Vertical mount

26-400.....$ .25

TO-3 HEAT SINK

Mfg. - THERMALLOY
Mfg.# - 6054
1-3/4"sq x 1-1/4" Tall
TO-3 case style
High performance cooler.

26-384.....$ .35

TO-3 HEAT SINK

Mfg. - THERMALLOY
Mfg.# - 6103B
1-1/2" x 1-1/4" x 1/2"
Optimum cooler "U" style

26-373.....$ .09

TO-3 HEAT SINK

Mfg. - AAVID, #5016B
1-1/4" Tall, TO-3 case style
Space saving diamond shape

26-195.....$ .25

DUAL TO-220 HEAT SINK

1-1/2" sq x 7/8" Tall
High performance cooling for dual TO-220's

26-387.....$ .25

100µH 2.1 AMP FILTER INDUCTOR

Mfg. - DALE
Mfg.# - IHA-102
3/8" x 3/4", 10% tolerance
Pre-tinned PC mounting axial leads designed for use with switching power supplies. Protected by polyolefin sleeve. Inductance measured at 1 KHz with no DC current.

18-141.....$ .99

5µH 24 AMP FILTER INDUCTOR

Mfg. - DALE
Mfg.# - IH-15
1-1/4" x 5/8", 10% tolerance
Used for noise filtering.

18-139.....$1.99

14µH 15 AMP INDUCTOR

1/2"D x 1-1/4"L
High current iron core filter inductor with sleeve.

18-140.....$1.99

1/4 WATT METAL FILM

4PK/ $ .90

Part#	Value in Ohms	Part#	Value in Ohms
QW010	10	QW210	1 K
QW012	12	QW212	1.2 K
QW015	15	QW218	1.8 K
QW018	18	QW222	2.2 K
QW022	22	QW227	2.7 K
QW027	27	QW233	3.3 K
QW033	33	QW239	3.9 K
QW039	39	QW247	4.7 K
QW047	47	QW256	5.6 K
QW056	56	QW268	6.8 K
QW068	68	QW282	8.2 K
QW082	82	QW310	10 K
QW110	100	QW318	18 K
QW112	120	QW327	27 K
QW118	180	QW333	33 K
QW122	220	QW347	47 K
QW127	270	QW356	56 K
QW133	330	QW368	68 K
QW139	390	QW382	82 K
QW147	470	QW410	100 K
QW156	560	QW412	120 K
QW168	680	QW422	220 K
QW182	820		

1 WATT METAL FILM

4PK/ $ .95

Part#	Value in Ohms	Part#	Value in Ohms
1W047	47	1W318	18 K
1W110	100	1W322	22 K
1W115	150	1W327	27 K
1W122	220	1W333	33 K
1W133	330	1W339	39 K
1W147	470	1W347	47 K
1W156	560	1W356	56 K
1W210	1 K	1W368	68 K
1W212	1.2 K	1W410	100 K
1W215	1.5 K	1W412	120 K
1W222	2.2 K	1W422	220 K
1W239	3.9 K	1W427	270 K
1W247	4.7 K	1W447	470 K
1W310	10 K	1W510	1 M

2 WATT METAL FILM

2PK/ $ .95

Part#	Value in Ohms	Part#	Value in Ohms
2W047	47	2W310	10 K
2W110	100	2W315	15 K
2W115	150	2W322	22 K
2W122	220	2W327	27 K
2W133	330	2W333	33 K
2W139	390	2W339	39 K
2W147	470	2W347	47 K
2W210	1 K	2W368	68 K
2W215	1.5 K	2W410	100 K
2W227	2.7 K	2W415	150 K
2W247	4.7 K	2W427	270 K
2W268	6.8 K	2W447	470 K
2W282	8.2 K	2W510	1 M

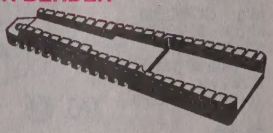
1/2 WATT METAL FILM

6PK/ $ .90

Part#	Value in Ohms	Part#	Value in Ohms
HW010	10	HW239	3.9 K
HW012	12	HW247	4.7 K
HW015	15	HW256	5.6 K
HW018	18	HW268	6.8 K
HW022	22	HW282	8.2 K
HW027	27	HW310	10 K
HW033	33	HW312	12 K
HW039	39	HW315	15 K
HW047	47	HW318	18 K
HW056	56	HW322	22 K
HW068	68	HW327	27 K
HW082	82	HW333	33 K
HW110	100	HW339	39 K
HW112	120	HW347	47 K
HW115	150	HW356	56 K
HW118	180	HW368	68 K
HW122	220	HW382	82 K
HW127	270	HW410	100 K
HW133	330	HW412	120 K
HW139	390	HW415	150 K
HW147	470	HW418	180 K
HW156	560	HW422	220 K
HW168	680	HW427	270 K
HW182	820	HW433	330 K
HW210	1 K	HW439	390 K
HW212	1.2 K	HW447	470 K
HW215	1.5 K	HW456	560 K
HW218	1.8 K	HW468	680 K
HW222	2.2 K	HW482	820 K
HW227	2.7 K	HW510	1 M
HW233	3.3 K		

2% Metal Film Resistors will Replace Carbon Composition, Metal Film, Cermet Film, Wire Wound and Metal Glaze.

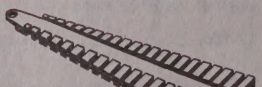
RESISTOR BENDER



Designed primarily for resistors from 1 watt, 5/8" body length to 2 watt, 11/16" - 1-1/4" body lengths. Eliminates scarring of leads. Made of high impact red cycolac plastic. Graduated in .05" increments.

47-145.....**$2.49**

COMPONENT BENDER



Designed to produce perfect bends without scarring of component leads. Developed for resistors and diodes from 1/4 watt, 1/4" body length to 1/2 watt, 3/8" body length and other cylindrically shaped components with axial leads. Made of high impact red cycolac plastic. Graduated in .05" increments.

47-144.....**$2.25**

RESISTOR KITS

Metal film 1/8-W resistors, 6 each

OHMS				
	10	220	1.5K	6.8K	33K
	22	330	1.8K	10K	47K
	47	390	2K	15K	100K
	100	470	2.2K	20K	220K
	120	680	3.3K	22K	330K
	150	1K	4.7K	27K	1M

RK-01.....each/**$35.99**

Metal film 1/4-W resistors, 4 each

OHMS					
	1	75	390	1.5K	8.2K
	10	100	470	2K	10K
	15	120	560	2.2K	22K
	22	150	680	2.7K	33K
	47	220	1K	3.3K	47K
	56	330	1.2K	4.7K	100K

RK-02.....each/**$28.69**

Metal film 1/2-W resistors, 6 each

OHMS					
	1	47	470	2.2K	22K
	1.5	100	560	3.3K	47K
	2.2	120	680	3.9K	100K
	10	150	1K	4.7K	220K
	22	220	1.5K	10K	470K
	33	330	1.8K	15K	1M

RK-03.....each/**$42.99**

Metal Oxide 1-W resistors, 4 each

OHMS					
	.22	4.7	68	470	4.7K
	.47	10	100	510	10K
	1	22	120	1K	47K
	1.5	24	150	1.5K	100K
	2	33	220	2K	220K
	2.2	47	330	2.2K	1M

RK-04.....each/**$42.99**

Metal Oxide 2-W resistors, 2 each

OHMS					
	.10	10	51	220	3.3K
	.22	15	100	470	5.6K
	.33	20	120	560	10K
	.47	22	130	680	18K
	1	30	150	1K	22K
	4.7	47	200	1.5K	100K

RK-05.....each/**$35.99**

Wire wound 5-W resistors, 2 each

OHMS					
	.10	1.5	5	22	150
	.22	2.2	5.1	27	220
	.27	2.7	6.8	33	270
	.33	3.3	8.2	39	1K
	.47	3.9	10	47	4.7K
	1	4.7	15	100	10K

RK-06.....each/**$37.49**

Wire wound 10-W resistors, 2 each

OHMS					
	.33	3.3	10	47	330
	1	3.9	12	68	1K
	1.5	4.7	15	100	2.2K
	2	5.1	22	150	3.3K
	2.2	6.8	27	180	4.7K
	2.7	8.2	33	220	10K

RK-07.....each/**$48.99**

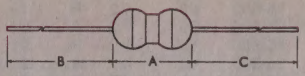
Wire wound 25-W resistors, 1 each

OHMS					
	1	3	8.2	39	220
	1.2	3.3	10	47	270
	1.5	3.9	15	75	470
	2	4.7	20	100	1K
	2.2	5.1	27	150	1.2K
	2.7	6.8	30	180	1.5K

RK-08.....each/**$35.99**

TRANS OHM 1% METAL FILM RESISTORS

AVAILABLE IN 1/8 WATT, 1/4 WATT, 1/2 WATT
FLAME RESISTANT
TABLE OF VALUES IN OHMS Ω



TO ORDER:
STATE WATTAGE
THEN OHMS
Example 1/8W 1.5M

Size	Price Each 200	1000
1/8 watt	$ .04	$ .016
1/4 watt	.02	.011
1/2 watt	.03	.025

10	22	47	100	220	470	1K	2.2K	5.1K	12K	27K	56K	120K	270K	620K
11	24	51	110	240	510	1.1K	2.4K	5.6K	13K	30K	62K	130K	300K	680K
12	27	56	120	270	560	1.2K	2.7K	6.2K	15K	33K	68K	150K	330K	750K
13	30	62	130	300	620	1.3K	3K	6.8K	16K	36K	75K	160K	360K	820K
15	33	68	150	330	680	1.5K	3.3K	7.5K	18K	39K	82K	180K	390K	910K
16	36	75	160	360	750	1.6K	3.6K	8.2K	20K	43K	91K	200K	430K	1M
18	39	82	180	390	820	1.8K	3.9K	10K	22K	47K	100K	220K	470K	1.5M
20	43	91	200	430	910	2K	4.7K	11K	24K	51K	110K	240K	560K	2.2M

Sold in lots of 200 only

Watt Size	Dimension (in) A	B	C
1/8	.15	1.1	.06
1/4	.25	1.18	.09
1/2	.37	1.1	.15

Requirements	Operating Temp. Range	Temp. Coefficient	Temp. Cycling	Low Temp. Operation	Short Time Overload	Terminal Strength	Dielectric Withstanding	Insulation Resistance	Effect of Soldering	Load Life (70oC)	Moisture Resistance, (40oC)	Shock 50G, 11ms	Vibration 10-2000 Hz
Characteristics	-55oC to 155oC	±50ppm	±.5%	±.5%	±.5%	±.5%	±.5%	10^{10} Ω	±5%	±2%	±2%	±20%	±20%
Test Method MIL-R-10509F	-------	±50ppm	4.604	4.6.5	4.6.6	4.6.7	4.6.8	4.6.9	4.6.10	4.6.13	MIL-R-22684 4.6.10	-------	-------

POWER RESISTORS

Aluminum housed, wire wound. Screw mounts on chassis.

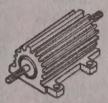
10 WATT

Mfg. - DALE, #RH-10
3/4" x 7/16" x 13/32", 2% tolerance

47-149..... .1 ohm.....$ .99
47-153..... .03 ohm.....$ .99

Mfg. - KELVIN
47-156..... .03 ohm.....$ .75

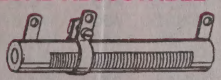
120 WATT



Mfg. - DALE
1" long tapped studs in either end. With hardware.

47-146.....1 ohm.....$6.95

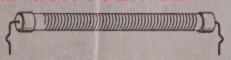
AUDIO TEST LOAD ADJUSTABLE RESISTOR



Mfg. - DALE
Mfg.# - HLA175-07Z-10-10
8-1/2" x 1-3/16" O.D. x 11/16" I.D.
10 ohm - 175 watt - 10% tolerance
Usable for either 4 or 8 ohm. Resistor includes slider lug. Wattage applies only when the entire resistance is in the circuit.

81-103.....$8.95

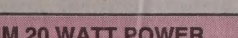
100 MEG OHM HIGH VOLTAGE RESISTOR



1/4" dia x 2"(L)
100 meg ohm, 15K volt
2.6 watt @ 200^{O} C
Non-insulated ceramic construction

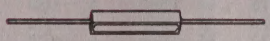
47-165.....$2.49

10 OHM 20 WATT POWER RESISTOR *Special*



20W-10.....$ .39

POWER RESISTORS WIREWOUND



10% or better, Material - sandstone

2 WATT - **$ .17**

2W-.47	2W-2.2	2W-27
2W-.68	2W-3.2	2W-82
2W-.82	2W-10	2W-560
2W-1	2W-12	2W-1.5K
	2W-15	

5 WATT - **$ .19**

5W-.1	5W-50	5W-600
5W-.47*	5W-120	5W-820
5W-8	5W-200	5W-1K
5W-8.2	5W-220	5W-1.1K
5W-25	5W-270	5W-3.9K
5W-33	5W-330	5W-4.7K
5W-45	5W-400	5W-5.6K
5W-47	5W-470	5W-8.2K
* 1/2" leads	5W-560	

7 WATT - **$ .27**

7W-.1	7W-20	7W-50
7W-2.2	7W-22	7W-56
7W-2.7	7W-33	7W-68
7W-6.8	7W-39	7W-75
7W-18	7W-47	7W-100

10 WATT - **$ .29**

10W-.22	10W-68	10W-560
10W-.47	10W-82	10W-1K
10W-3	10W-100	10W-1.3K
10W-3.9	10W-250	10W-2.7K
10W-24	10W-400	10W-8.2K
	10W-470	

15 WATT - **$ .45**

15W-2.7	15W-18	15W-68
15W-10	15W-22	15W-100
15W-15	15W-39	

25 WATT - **$ .49**

25W-390	25W-680	25W-820

POWER RESISTORS

.1 ohm - 5 watt
5% tolerance

47-155.....3/8" x 1/2" x 7/8".....$ .19

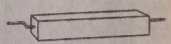
1.5 ohm - 3 watt
10% tolerance

47-164.....1/2" x 5/8" x 1".....$ .05

4.7 ohm - 5 watt
5% tolerance

47-152.....5/8" x 1/4" x 11/16".....$ .08

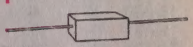
.1 OHM 10 WATT



Mfg. - DALE
.1 ohm, 10%, 1/2" leads
Wirewound power resistor, sandstone

47-157.....$ .26

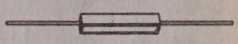
10K OHM 5 WATT



10K ohm, 5 watt, 5%

47-166.....$ .12

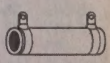
.5 OHM 15 WATT RESISTORS



Mfg. - IRC
Mfg.# - PW15A

47-170.....$ .19

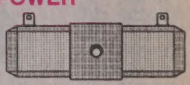
15 OHM 25 WATT



Mfg. - DALE, #HL-25-06Z
2" x 11/16" O.D. x 5/16" I.D.
Industrial power wirewound tubular resistor.
10% tolerance.

47-162.....$ .99

5 OHM 30 WATT POWER RESISTOR



Mfg. - IRC (PW-30)
10% tolerance

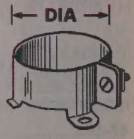
47-141.....$ .50

ELECTROLYTIC CAPACITORS

Axial — Radial

Part#	Volt	µF	Axial or Radial	1-99	100-Up
15-815	15	100	A	$ .15	$ .13
15-814	16	10	A	.08	.07
15-853	16	10	R	.10	.09
15-813	16	22	R	.08	.07
15-816	16	47	A	.10	.08
15-282	16	100	R	.15	.13
15-686	16	1000	R	.45	.39
15-497	16	2200	A	.39	.29
15-951	16	2200	R	.45	.39
15-946	16	4700	R	.99	.89
15-810	25	4.7	A	.12	.10
15-811	25	4.7	R	.12	.10
15-500	25	10	A	.12	.10
15-501	25	10	R	.12	.10
15-502	25	22	A	.12	.10
15-503	25	22	R	.12	.10
15-504	25	33	A	.18	.16
15-505	25	33	R	.14	.12
15-506	25	47	A	.19	.17
15-507	25	47	R	.19	.17
15-508	25	100	A	.28	.25
15-509	25	100	R	.28	.25
15-510	25	220	A	.33	.29
15-511	25	220	R	.33	.29
15-512	25	330	A	.43	.39
15-513	25	330	R	.43	.39
15-514	25	470	A	.53	.49
15-515	25	470	R	.53	.49
15-516	25	1000	A	.63	.59
15-517	25	1000	R	.63	.59
15-518	25	2200	A	.68	.62
15-286	25	2200	R	.68	.62
15-519	25	3300	A	1.51	1.35
15-520	25	3300	R	1.51	1.35
15-521	25	4700	A	1.80	1.65
15-522	25	4700	R	1.80	1.65
15-765	25	6800	A	1.99	1.75
15-424	25	6800	R	1.99	1.75
15-288	35	4.7	A	.15	.12
15-349	35	4.7	R	.15	.12
15-523	35	10	A	.18	.14
15-524	35	10	R	.18	.14
15-525	35	22	A	.18	.16
15-526	35	22	R	.18	.16
15-527	35	33	A	.20	.18
15-528	35	33	R	.20	.18
15-529	35	47	A	.24	.22
15-530	35	47	R	.24	.22
15-531	35	100	A	.30	.27
15-532	35	100	R	.30	.27
15-533	35	220	A	.40	.37
15-534	35	220	R	.40	.37
15-535	35	330	A	.68	.59
15-536	35	330	R	.50	.45
15-537	35	470	A	.60	.52
15-538	35	470	R	.60	.52
15-539	35	1000	A	.63	.59
15-540	35	1000	R	.63	.59
15-289	35	1500	A	.75	.65
15-817	35	1500	R	.75	.65
15-541	35	2200	A	.90	.82
15-542	35	2200	R	.90	.82
15-543	35	3300	A	1.80	1.65
15-544	35	3300	R	1.80	1.65
15-545	35	4700	A	2.17	1.99
15-546	35	4700	R	2.00	1.85
15-482	35	6800	R	2.25	2.05
15-842	40	10000	R	3.49	3.00
15-290	50	.01	A	.18	.16
15-547	50	.47	A	.18	.16
15-548	50	.47	R	.18	.16
15-549	50	1	A	.17	.15
15-550	50	1	R	.17	.15
15-551	50	2.2	A	.19	.17
15-552	50	2.2	R	.19	.17
15-553	50	3.3	A	.21	.19
15-554	50	3.3	R	.21	.19
15-555	50	4.7	A	.24	.22
15-556	50	4.7	R	.24	.22
15-852	50	6.8	R	.24	.22
15-557	50	10	A	.25	.23
15-558	50	10	R	.25	.23
15-559	50	22	A	.28	.26
15-560	50	22	R	.25	.23
15-561	50	33	A	.27	.25
15-562	50	33	R	.27	.25
15-563	50	47	A	.36	.32
15-564	50	47	R	.36	.32
15-565	50	100	A	.38	.34
15-566	50	100	R	.38	.34
15-567	50	220	A	.61	.57
15-568	50	220	R	.61	.57
15-569	50	330	A	.68	.62
15-570	50	330	R	.68	.62
15-571	50	470	A	.75	.69
15-572	50	470	R	.75	.69
15-573	50	1000	A	.95	.89
15-574	50	1000	R	.95	.89
15-422	50	1500	R	1.25	1.09
15-575	50	2200	A	1.50	1.35
15-576	50	2200	R	1.50	1.35
15-577	50	3300	A	2.70	2.50
15-578	50	3300	R	2.75	2.50
15-579	50	4700	A	3.99	3.49
15-855	50	4700	R	1.99	1.50
15-837	50	10000	R	3.99	3.75
15-291	63	1	R	.20	.18
15-948	63	2.2	R	.24	.23
15-292	63	100	A	.45	.39
15-851	63	100	R	.45	.39
15-293	63	220	A	.80	.75
15-345	63	330	R	.95	.85
15-812	63	470	A	.99	.89
15-685	63	470	R	.99	.89
15-856	63	2200	R	1.75	1.50
15-582	100	.47	A	.19	.17
15-583	100	.47	R	.19	.17
15-584	100	1	A	.21	.19
15-585	100	1	R	.21	.19
15-586	100	2.2	A	.23	.21
15-587	100	2.2	R	.19	.17
15-588	100	3.3	A	.24	.22
15-589	100	3.3	R	.25	.22
15-590	100	4.7	A	.23	.21
15-591	100	4.7	R	.31	.28
15-592	100	10	A	.33	.29
15-593	100	10	R	.33	.29
15-594	100	22	A	.32	.29
15-595	100	22	R	.35	.31
15-596	100	33	A	.29	.27
15-597	100	33	R	.29	.27
15-598	100	47	A	.45	.39
15-599	100	47	R	.37	.34
15-600	100	100	A	.69	.65
15-601	100	100	R	.69	.65
15-602	100	220	A	.80	.75
15-603	100	220	R	.95	.85
15-604	100	330	A	.75	.69
15-605	100	330	R	.75	.69
15-606	100	470	A	1.29	1.19
15-607	100	470	R	1.29	1.19
15-608	100	1000	A	1.75	1.59
15-609	100	1000	R	1.75	1.59
15-610	160	1	R	.19	.17
15-611	160	2.2	R	.19	.17
15-612	160	3.3	R	.24	.22
15-613	160	4.7	R	.23	.21
15-614	160	6.8	R	.32	.29
15-615	160	10	R	.29	.27
15-616	160	22	R	.47	.44
15-481	160	100	R	1.25	1.15
15-949	200	3.3	R	.25	.23
15-945	200	10	R	.39	.35
15-617	200	33	R	.59	.55
15-618	200	47	R	.84	.75
15-950	200	68	R	.89	.79
15-821	200	100	A	1.99	1.75
15-823	200	100	R	1.99	1.75
15-822	200	330	A	2.99	2.75
15-347	200	470	R	3.25	2.99
15-619	250	1	A	.39	.36
15-620	250	1	R	.21	.19
15-621	250	2.2	A	.24	.22
15-622	250	2.2	R	.24	.22
15-623	250	3.3	A	.26	.24
15-624	250	3.3	R	.26	.24
15-625	250	4.7	A	.45	.39
15-626	250	4.7	R	.29	.27
15-627	250	6.8	R	.37	.35
15-628	250	10	A	.45	.42
15-629	250	10	R	.44	.41
15-630	250	22	A	1.25	1.15
15-631	250	22	R	.99	.89
15-632	250	33	A	1.20	1.09
15-633	250	33	R	1.20	1.09
15-634	250	47	A	1.25	1.19
15-635	250	47	R	1.25	1.19
15-636	250	100	A	2.25	1.99
15-637	250	100	R	2.25	1.99
15-344	250	150	A	1.75	1.60
15-639	250	220	R	3.25	2.99
15-643	350	.47	R	.22	.19
15-644	350	1	A	.25	.23
15-645	350	1	R	.25	.23
15-646	350	2.2	R	.35	.33
15-647	350	3.3	R	.37	.34
15-648	350	4.7	R	.47	.44
15-649	350	10	R	.68	.64
15-650	350	22	R	1.07	.99
15-651	350	33	R	1.37	1.25
15-652	350	47	R	1.65	1.50
15-687	350	100	R	2.50	2.25
15-653	450	1	R	.32	.29
15-654	450	2.2	R	.38	.35
15-423	450	4.7	A	.75	.69
15-655	450	4.7	R	.58	.54
15-656	450	10	R	.85	.79
15-353	450	22	R	1.35	1.29
15-372	450	22	A	1.75	1.59
15-657	450	33	A	2.65	2.35
15-698	450	33	R	2.35	2.19
15-658	450	47	A	3.00	2.75
15-699	450	47	R	3.00	2.75
15-659	450	82	A	3.49	3.25
15-660	450	100	A	3.99	3.75

CAPACITOR MOUNTING RINGS



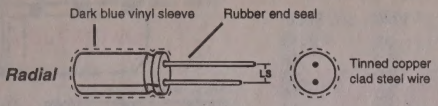
2 Mounting feet
Comes less screw
Dia. size: 1-5/16" - 1-9/16"

74-260.....$ .25

3 Mounting feet
Comes less screw
Dia. size: 2" - 2-1/16"

VR8.....$ .39

XICON AUDIO FREQUENCY BI-POLARS



Specifications:

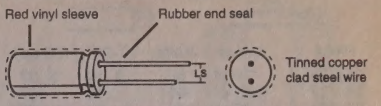
- Operating temperature range: -40°C to +85°C
- Tangent of the loss angle: .05 max. (@ 120Hz)
- Capacitance tolerance: ±20%
- Leakage current: 100µA (max.)

50 VDC

Radial Lead Type

Part#	Value (uF)	Case Size D x L (mm) Max.	Lead Space (mm)	1-99	100-Up
BPRL50V1.0	1	8 x 11	3.5	$ .15	$ .11
BPRL50V2.2	2.2	10 x 13	5	.32	.27
BPRL50V3.3	3.3	10 x 16	5	.32	.27
BPRL50V4.7	4.7	10 x 20	5	.32	.27
BPRL50V6.8	6.8	13 x 21	5	.30	.25
BPRL50V10	10	13 x 26	5	.45	.35
BPRL50V22	22	16 x 27	7.5	.79	.65

XICON HIGH FREQUENCY BI-POLARS



Specifications:

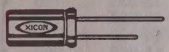
- Operating temperature range: -25°C to +85°C
- Leakage current: 1= .2CV (µA)
- Capacitance tolerance: ±20%
- Dissipation factor: (20°C, 120 Hz): .05, 120 Hz

50 VDC

Radial Lead Type

Part#	Value (uF)	Case Size D x L (mm) Max.	Lead Space (mm)	Ripple (Ip-p) 70°C	Ripple (Ip-p) 85°C	1-99	100-Up
BPHR50V1.0	1	13 x 26	5	4	3.5	$ .59	$ .49
BPHR50V2.2	2.2	16 x 27	7.5	6	4	.65	.52
BPHR50V3.3	3.3	16 x 32	7.5	6.5	4.5	.75	.59
BPHR50V4.7	4.7	16 x 25	7.5	7.5	5	.79	.65
BPHR50V6.8	6.8	16 x 36	7.5	8	5.5	.85	.69
BPHR50V8.2	8.2	16 x 36	7.5	9	6.5	.89	.75
BPHR50V10	10	16 x 36	7.5	10	7	1.05	.85
BPHR50V12	12	18 x 41	7.5	12	8.5	1.25	.99
BPHR50V15	15	22 x 41	10	12.5	9	1.69	1.35
BPHR50V22	22	22 x 40	10	13	9.5	1.99	1.59
BPHR50V33	33	33 x 40	10	14	10	2.35	1.99

MICRO-MINIATURE ELECTROLYTICS



Mfg. - XICON
These low profile caps are used in VCRs, camcorders and other modern products where space is limited.

Part#	Value	Size DxL (mm)	(1-99)	(100-Up)
15-449	220 uF @ 10V	8 x 9	$ .15	$ .14
15-450	10 uF @ 16V	4 x 7	.15	.14
15-451	22 uF @ 16V	4 x 7	.15	.14
15-452	33 uF @ 16V	5 x 7	.15	.14
15-453	47 uF @ 16V	6 x 7	.15	.14
15-454	100 uF @ 16V	8 x 9	.15	.14
15-455	33 uF @ 25V	6 x 7	.15	.14
15-456	4.7 uF @ 35V	4 x 7	.11	.10
15-457	10 uF @ 35V	5 x 7	.12	.11
15-458	22 uF @ 35V	6 x 7	.14	.13
15-459	.1 uF @ 50V	4 x 7	.11	.10
15-460	.22 uF @ 50V	4 x 7	.11	.10
15-461	.33 uF @ 50V	4 x 7	.11	.10
15-462	.47 uF @ 50V	4 x 7	.11	.10
15-463	1 uF @ 50V	4 x 7	.11	.10
15-464	2.2 uF @ 50V	4 x 7	.11	.10
15-465	3.3 uF @ 50V	4 x 7	.11	.10
15-466	4.7 uF @ 50V	5 x 7	.13	.12
15-467	10 uF @ 50V	5 x 7	.14	.13

NON-POLARIZED ELECTROLYTICS

Mfg. - XICON
Bi-polar (non-polarized) axial capacitors for crossover applications. Effective up to approx. 200 watts.

100 Volt

Part#	Value	Size DxL (mm)	(1-99)	(100-Up)
15-434	1 uF	6 x 16	$ .29	$ .22
15-435	1.5 uF	6 x 16	.30	.24
15-436	2.2 uF	8 x 17	.34	.26
15-437	3.3 uF	8 x 17	.42	.32
15-438	4.7 uF	8 x 17	.45	.35
15-439	6.8 uF	8 x 20	.30	.27
15-440	10 uF	10 x 21	.48	.45
15-441	15 uF	10 x 26	.68	.52
15-442	22 uF	10 x 26	.53	.49
15-444	47 uF	13 x 27	1.09	.99
15-445	50 uF	13 x 32	1.35	1.19
15-446	68 uF	13 x 32	1.59	1.25
15-447	100 uF	16 x 38	1.69	1.49
15-448	220 uF	18 x 43	2.89	2.49

CERAMIC TRIMMERS

4mm 50 WVDC

Part#	Range (pF)	(1-99)	(100-Up)
242-1810	1.8 - 10	$ 1.09	$ .99
242-2820	2.8 - 20	1.09	.99
242-4030	4.0 - 30	1.09	.99

5mm 200 WVDC

Part#	Range (pF)	(1-99)	(100-Up)
24AA020	1.8 - 6	$ .71	$ .65
24AA021	2.8 - 12.5	.71	.65
24AA022	3.5 - 20	.73	.67
24AA023	5.0 - 30	.78	.72
24AA024	9.0 - 50	.81	.75

5mm SURFACE MOUNT 200 WVDC

Part#	Range (pF)	(1-99)	(100-Up)
24AA070	1.8 - 6	$ .72	$ .64
24AA071	2.8 - 12.5	.72	.64
24AA072	3.5 - 20	.72	.64
24AA073	5.0 - 30	.76	.70
24AA074	9.0 - 50	.81	.70

6mm SNAP-IN MOUNT 100 WVDC

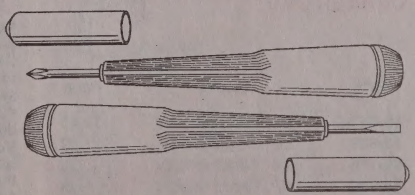
Part#	Range (pF)	(1-99)	(100-Up)
242-1530	1.5 - 3	$ .40	$ .32
242-2710	2.7 - 10	.40	.32
242-4220	4.2 - 20	.40	.32
242-5530	5.5 - 30	.45	.36
242-8050	8.0 - 50	.47	.37

7mm 225 WVDC

Part#	Range (pF)	(1-99)	(100-Up)
242-3610-12	2.0 - 12	$ .66	$ .59
242-3610-23	2.8 - 23	.66	.59
242-3610-45	7.0 - 45	.79	.69
242-3610-55	7.0 - 55	.81	.70
242-3610-70	7.0 - 70	.96	.84
242-3610100	12.0 - 100	.99	.88

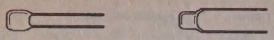
2 PIECE CERAMIC TUNING TOOL

The special ceramic blades and antistatic handles are non-conductive, non-static, non-magnetic. One mini phillips head and one mini flat head, with protective caps. The perfect tool for ceramic trimmers or RF coils adjustments.



54-213.....$8.95

RADIAL MONOLITHICS

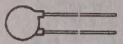


Part#	Value	Volts	(1-99)	(100-up)
15-733	10 pf	50	$ .10	$ .07
15-722	15 pf	50	.10	.07
15-723	22 pf	50	.10	.07
15-724	33 pf	50	.10	.07
15-296	39 pf	50	.10	.07
15-725	47 pf	50	.10	.07
15-726	56 pf	50	.10	.07
15-727	68 pf	50	.10	.07
15-728	82 pf	50	.10	.07
15-729	100 pf	50	.10	.07
15-297	130 pf	50	.10	.07
15-782	150 pf	50	.10	.07
15-299	180 pf	50	.10	.07
15-300	220 pf	50	.10	.07
15-301	330 pf	50	.10	.07
15-302	430 pf	50	.10	.07
15-303	470 pf	50	.10	.07
15-730	560 pf	50	.10	.07
15-731	680 pf	50	.10	.07
15-732	820 pf	50	.10	.07
15-310	.001 uf	50	.10	.07
15-305	.0015 uf	50	.10	.07
15-307	.0039 uf	50	.10	.07
15-308	.0047 uf	50	.10	.07
15-309	.0056 uf	50	.10	.07
15-311	.0068 uf	50	.10	.07
15-139	.01 uf	50	.10	.09
15-312	.022 uf	50	.10	.07
15-313	.047 uf	50	.13	.10
15-314	.068 uf	50	.13	.10
15-140	.1 uf	50	.15	.12
15-315	.22 uf	50	.18	.16
15-316	.27 uf	50	.10	.09
15-142	.33 uf	50	.15	.12
15-317	.47 uf	50	.26	.22
15-185	1 uf	50	.30	.27
15-744	1.5 uf	50	.35	.29
15-491	2.2 uf	50	.99	.75
15-432	4.7 uf	50	1.99	1.49
15-433	10 uf	25	3.25	2.25

AXIAL MONOS

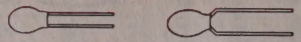
15-342	.001 uf	100V	$ .06
15-716	.01 uf	50V	.06
15-407	.1 uf	50V	.10
15-408	.22 uf	50V	.12
15-409	.33 uf	50V	.12
15-410	.47 uf	50V	.20
15-411	1.0 uf	50V	.30

CERAMIC DISCS



Part#	Value	Volts	Dia (mm)	Lead Space	Price
15-882	2.2pf	500	6	.2"	$ .04
15-883	18pf	500	6	.2"	.04
15-896	22pf	500	7	.2"	.10
15-718	220pf	6KV	10	.4"	.20
15-879	33pf	500	6	.2"	.08
15-878	47pf	500	6	.2"	.10
15-885	68pf	1000	6	.2"	.06
15-898	220pf	500	6	.2"	.06
15-886	330pf	3000	9	.2"	.15
15-486	1000pf	1000	7	.2"	.06
15-881	1500pf	3000	11	.3"	.15
15-895	2200pf	500	6	.2"	.08
15-887	2700pf	500	12	.35"	.04
15-880	3300pf	1000	10	.3"	.10
15-897	6800pf	500	10	.2"	.04
15-888	.01µf	100	12	.25"	.15
15-884	.01µf	500	12	.2"	.25
15-877	.01µf	1000	18	.3"	.39
15-889	.1µf	50	11	.2"	.10
15-968	.1µf	500	21	.25"	.75
15-857	.1µf	1000	23	.375"	1.49

DIPPED TANTALUM

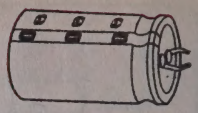


Part#	µF	Volts	Price
15-214	.1	35	$ .13
15-707	.1	50	.15
15-276	.22	35	.13
15-876	.33	35	.14
15-382	.47	35	.14
15-364	.47	50	.20
15-705	.68	35	.13
15-348	.68	50	.15
15-319	.82	35	.18
15-215	1	25	.14
15-216	1	35	.16
15-321	1	50	.28
15-383	2.2	10	.12
15-325	2.2	16	.14
15-379	2.2	20	.15
15-277	2.2	25	.18
15-217	2.2	35	.20
15-218	3.3	16	.15
15-219	3.3	35	.22
15-220	4.7	10	.14
15-221	4.7	16	.18
15-704	4.7	20	.23
15-322	4.7	25	.25
15-222	4.7	35	.26
15-706	4.7	50	.30
15-339	5.6	10	.20
15-275	6.8	10	.30
15-381	6.8	25	.35
15-323	6.8	35	.40
15-986	6.8	50	.45
15-384	10	10	.22
15-224	10	16	.30
15-318	10	20	.35
15-225	10	25	.37
15-386	10	35	.50
15-388	15	10	.20
15-391	15	16	.25
15-380	15	20	.30
15-385	15	25	.35
15-227	22	10	.25
15-228	22	16	.35
15-326	22	25	.50
15-229	22	35	.75
15-378	27	10	.15
15-320	33	10	.25
15-231	33	16	.30
15-232	33	20	.35
15-233	33	25	.65
15-234	33	35	1.00
15-389	47	10	.40
15-328	47	16	.50
15-703	47	20	.65
15-329	47	25	.99
15-330	47	35	1.49
15-236	68	16	.75
15-324	68	25	1.00
15-237	100	10	1.25
15-356	100	16	1.49
15-238	150	15	1.75
15-987	220	10	1.99

MEMORY BACK-UP CAPACITORS

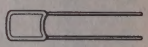
Part#	Value	Price
15-343-2	.1 Farad @ 5.5V	$1.45
15-959	.1 Farad @ 10V	1.99
90-155	.22 Farad @ 5.0V	.99
15-960	.47 Farad @ 5.5V	1.99
15-363	1 Farad @ 5.5V	1.99
15-721	1.4 Farad @ 5.5V	1.99

SNAP-LOCK ELECTROLYTICS



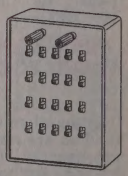
Part#	µF	Volts	(1-99)	(100-up)
15-403	10000	16	$1.75	$1.49
15-395	22000	16	1.99	1.49
15-779	33000	16	2.99	2.49
15-498	6800	25	.99	.89
15-404	10000	25	1.99	1.65
15-875	6800	35	1.65	1.45
15-359	4700	35	1.50	1.25
15-368	10000	35	2.75	2.49
15-762	2200	50	1.50	1.35
15-682	3300	50	1.99	1.89
15-683	4700	50	2.25	1.89
15-374	10000	50	2.75	2.49
15-943	10000	63	3.75	3.25
15-161	220	200	1.25	.99
15-499	330	200	1.99	1.69
15-162	470	200	2.25	1.99
15-964	560	200	2.25	1.99
15-163	1000	200	2.75	2.49
15-967	1800	200	2.99	2.75
15-266	220	250	1.99	1.75
15-927	470	250	2.49	2.25
15-684	1200	250	3.49	2.99
15-926	47	400	1.75	1.49
15-358	100	400	2.99	2.69
15-833	150	400	2.65	2.25
15-267	120	400	2.65	2.25
15-992	220	400	2.99	2.65
15-962	330	400	2.99	2.49
15-952	470	400	5.25	4.75
15-991	100	450	3.25	2.99
15-963	390	450	4.99	4.75

RADIAL MYLARS



Part#	Value	Price
15-874	.0039 µF @ 100V	$ .07
15-413	.0047 µF @ 50V	.07
15-412	.001 µF @ 50V	.06
15-415	.022 µF @ 50V	.09
15-416	.033 µF @ 50V	.11
15-417	.047 µF @ 50V	.11
15-414	.01 µF @ 50V	.07
15-485	.1 µF @ 50V	.13
15-745	.1 µF @ 100V	.13
15-418	.22 µF @ 50V	.19
15-871	.22 µF @ 100V	.19
15-746	.22 µF @ 250V	.26
15-483	.33 µF @ 50V	.20
15-419	.47 µF @ 50V	.25
15-776	.47 µF @ 100V	.28
15-747	.47 µF @ 250V	.35
15-736	1 µF @ 100V	.40
15-868	1.5 µF @ 250V	.55

CAPACITANCE SUBSTITUTION BOX



Mfg. - GC
5-1/2" x 3-1/2" x 1"
Select range of 100 pf to 4.7 mfd. 20 dual contact slide switches allow simple adding or subtracting to the value desired. Push type terminals. Voltage 200 VDC non polarized. Precision 10% throughout. This eliminates the guesswork in determining the appropriate capacitance values need for projects or repairs.

15-953.....$69.95

RADIAL MONOLITHIC SPECIALS

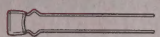
.001 µf @ 50 VOLT MONO

Mfg.# - 1C10X7R102K050B
10%, X7R

15-819..... .1" lead space.....$ .07

.01 µF @ 50 VOLT MONO

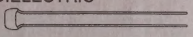
Mfg. - MURATA ERIE
10% X7R
2500 per reel



(1-2499) (2500-Up)
15-980.....$ .05.....$ .03

.1 µf @ 50 VOLT MONO

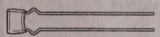
Mfg. - PROSPERITY DIELECTRIC
20%, Z5U, Bulk



15-818..... .1" lead space.....$ .06

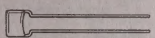
Mfg. - MURATA ERIE, #RPE 1219125U104M050

20%, Z5U, Tape



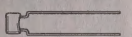
(1-2499) (2500-Up)
15-977..... .1" lead space.....$ .06.....$ .05

Mfg. - MURATA ERIE
20%, Z5U, Tape



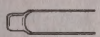
(1-2999) (3000-Up)
15-956.....1" lead space.....$ .06.....$ .05

Mfg. - KEMET
20%, Z5U, Tape



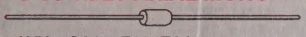
(1-2499) (2500-Up)
15-969..... .2" lead space.....$ .06.....$ .05

Mfg. - AVX
20%, Z5U, Bulk



15-904..... .2" lead space.....$ .07

.1µF @ 50 VOLT AXIAL MONO

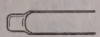


Mfg. - AVX, #SA105E104ZAA

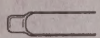
90-231.....$ .06

.1 µf @ 100 VOLT MONO

20%, Z5U
15-749..... .1" lead space.....$ .09



10%, X7R
15-905..... .2" lead space.....$ .09

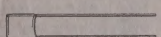


10%, X7R
15-859..... .2" lead space.....$ .09

1 µf @ 50 VOLT MONO

Mfg. - CENTRALAB
10%, .25" board ready leads
15-933..... .2" lead space.....$ .24

-20% +80%, Z5U, Tape



15-983..... .2" lead space.....$ .19

6mm CERAMIC TRIMMERS

5.2 - 30 pF @ 100 WVDC, Green
15-176.....$ .25

2 - 7.5 pF @ 100 WVDC, Black
15-332.....$ .25

2.5 - 10 pF @ 100 WVDC, Brown
15-333.....$ .25

5.5 - 30 pF @ 100 WVDC, Orange
15-334.....$ .25

2.5 - 7 pF, Blue
15-335.....$ .25

4 - 60 pF @ 100 WVDC, Orange
90-252.....$ .25

4.2 - 20 pF, Red
15-798.....$ .25

12-35pF CERAMIC TRIMMER

Mfg. - SWALLOW
7.5mm

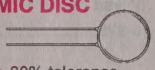
(1-99) (100-Up)
15-907.....$ .15.....$ .12

1000 pF @ 160V PRESS FIT CAP

Fits in .116" hole

15-397.....$ .25

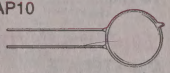
.1 µF @ 500V CERAMIC DISC



Mfg. - BAKNOR
7/8" dia x 1/8" thick
.25" lead space, Z5V, -20 + 80% tolerance

15-968.....$ .75

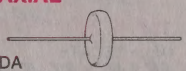
.1 µF @ 1000VDC CERAMIC DISC



Mfg. - SPRAGUE, #10GAP10
15/16" dia x 1/8" thick
.375" lead space
20% tolerance

15-857.....$1.49

.001 @ 10KV AXIAL CERAMIC DISC



Mfg. - PANASONIC
Mfg.# - ECK-D4A102MDA
1/4" x 13/16", 20% tolerance

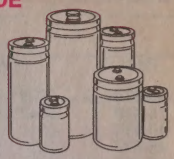
(1-99) (100-Up)
15-841.....$ .99.....$ .75

METALLIZED POLYESTER FILM CAP

Mfg. - PANASONIC
Mfg.# - ECQ-E

Part#	µF	VDC	Dimensions (mm) L	W	H	Lead Space	Price
15-928	.047	400	12	5	8.3	.4"	$ .17
15-825	.1	400	12	6.3	12	.4"	.19
15-869	.15	400	18.5	5	12.4	.5"	.29
15-850	1	100	12	6.7	14	.4"	.25
15-759	1	400	26	8.5	18.9	1"	.99
15-965	3.3	100	16.5	14.1	7.4	.5"	.65

COMPUTER GRADE CAPACITORS



27,000 µF @ 15V
15-824.....2"dia x 3-1/8".....$1.49

89,000 µF @ 15V
15-835.....3"dia x 4-5/8".....$5.95

6,000 µF @ 20V
15-739.....1-3/8"dia x 2-1/8".....$ .49

55,000 µF @ 30V
15-761.....2-1/2"dia x 3-1/8".....$9.95

32,000 µF @ 40V
15-989.....3"dia x 5-7/8".....$9.95

2,200 µF @ 50V
15-714.....1-3/8"dia x 2-1/8".....$ .99

15,000 µF @ 75V
15-801.....2"dia x 3-1/8"(PC Lead).....$8.95

1,500 µF @ 150V
15-740.....1-3/4"dia x 3-5/8".....$2.49

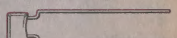
300 µF @ 200V
15-712.....1-3/8"dia x 2-1/8".....$ .95

1,000 µF @ 200V
15-720.....2"dia x 3-1/4".....$3.99

360 µF @ 250V
15-711.....2"dia x 2-1/2" (PC Lead).....$ .49

.1µF @ 50 VDC RADIAL MONO

Mfg. - PHILIPS
Mfg.# - K104Z15Z5U
.2" lead space
Tape & reel



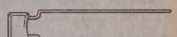
Special (1-2499) (2500-Up)
82-100.....$ .05.....$ .04

Mfg.# - K104M20Z5U
.2" lead space. Ammo

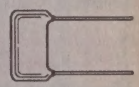
(1-2499) (2500-Up)
82-101.....$ .06.....$ .04

.22µF @ 50 VDC RADIAL MONO

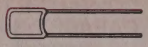
Mfg. - PHILIPS
Mfg.# - K224M20Z5U
.2" lead space
Ammo



Special (1-2499) (2500-Up)
82-102.....$ .08.....$ .06

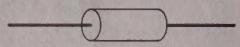


RADIAL MYLARS



Part#	Value	Price
15-874	.0039 µF @ 100V	$ .07
15-413	.0047 µF @ 50V	.07
15-412	.001 µF @ 50V	.06
15-415	.022 µF @ 50V	.09
15-416	.033 µF @ 50V	.11
15-417	.047 µF @ 50V	.11
15-414	.01 µF @ 50V	.07
15-485	.1 µF @ 50V	.13
15-745	.1 µF @ 100V	.13
15-418	.22 µF @ 50V	.19
15-871	.22 µF @ 100V	.19
15-746	.22 µF @ 250V	.26
15-483	.33 µF @ 50V	.20
15-419	.47 µF @ 50V	.25
15-776	.47 µF @ 100V	.28
15-747	.47 µF @ 250V	.35
15-736	1 µF @ 100V	.40
15-868	1.5 µF @ 250V	.55

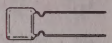
AXIAL MYLARS



Part#	µF	VDC	Dimensions Dia	Length	Price
15-844	.047	250	3/8"	9/16"	$ .10
15-934	.1	400	1/4"	3/4"	.35
15-894	.22	100	7/16"	7/8"	.12
15-900	.22	600	5/8"	1-13/16"	.59
15-802	1	400	3/4"	1-1/4"	.99
15-902	1.5	250	3/8"	1-3/16"	.45
15-786	1.5	400	13/16"	2-1/4"	1.25
15-788	1.5	400	7/8"	1-5/8"	1.25
15-893	1.5	550	1"	1-1/2"	.85
15-795	2	550	3/4"	1-1/4"	2.99
15-978	4.7	250	5/8"	1-3/8"	.85

1KV RADIAL MYLARS

Mfg. - ILLINOIS CAP
10%, .5" lead space



Part#	Value	Price
15-908	.015 µF	$ .49
15-909	.018 µF	.49
15-910	.022 µF	.49
15-911	.027 µF	.49
15-912	.039 µF	.49
15-913	.047 µF	.75

BOX MYLARS

.42" x .16" x .34", .25" lead space

.068 µF @ 100 volt
15-830.....$ .01

.01 µF @ 400 volt
15-829.....$ .03

.51" x .16" x .34", .4" lead space, 5%

.01 µF @ 630 volt
15-846.....$ .04

.047µF @ 630 VDC METALIZED POLYESTER

Mfg. - NICHICON, .74" x .2" x .37"
.6" lead space, 10% tolerance

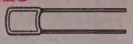
15-831.....$ .49

.068µF @ 400 VDC FILM

Mfg. - NICHICON, .57" x .28" x .43"
.4" lead space, 20% tolerance

15-807.....$ .19

.1µF @ 100 V "GREENIES"



Radial mylar, .25" lead space

15-899.....$ .06

.1µF @ 250 VAC (600 VDC) BOX MYLAR

Mfg. - WIMA, .70" x .36" x .61"
.5" lead space, 20% tolerance

15-828.....$ .15

.1µF @ 250 VAC (600 VDC) METALLIZED FILM

Mfg. - ASC, .95" x .5" x .27"
.8" lead space, 20% tolerance

15-924.....$ .25

.22µF @ 630 VDC METALLIZED POLYESTER

Mfg. - PHILIPS
5/8" x 1-1/16" x 1-1/8", 10% tolerance

15-937.....$ .15

.33µF @ 400 VDC

Mfg. - ILLINOIS CAP (MSR)
.9" x .58" x .29"
.75" lead space, 10% tolerance

15-870.....$ .15

.47µF @ 250 VDC METALLIZED FILM

.68" x .41" x .17"
.5" lead space, 10% tolerance

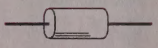
15-925.....$ .15

.47µF @ 250 VAC (600 VDC)

Mfg. - RIFA (PME-271M Series)
Interference suppressor cap
1.1" x .83" x .57", 1" lead space

15-758.....$ .49

.68µF @ 630 VDC AXIAL MYLAR



Mfg. - TECATE
1/2" x 3/4" x 1-3/8"
10% tolerance

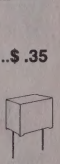
15-935.....$ .99

1µF @ 250 VDC FILM

Mfg. - TECATE
.96" x .55" x .26", .8" lead space, radial
Metal polyester film, 10% tolerance

15-808.....$ .35

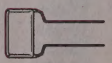
1µF @ 250 VAC/600 VDC METALLIZED FILM



1.2" x 1" x .63"
1" lead space, 20% tolerance

15-923.....$ .99

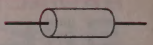
1µF @ 400 VDC METALLIZED POLYESTER



Mfg. - PANASONIC
.95" x .6" x .26"
.3" lead space, 10% tolerance

15-973.....$ .45

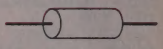
1µF @ 600 VDC AXIAL MYLAR



5/8"dia x 1-5/8"L
10% tolerance

15-966.....$ .99

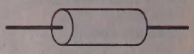
1µF @ 630 VDC AXIAL MYLAR



Mfg. - TECATE
3/4"dia x 1-3/4"
10% tolerance

15-936.....$1.25

1µF @ 1000 VDC METALLIZED POLYESTER



Mfg. - CORNELL DUBLIER
Mfg.# - MMWA10W1K
7/8"dia x 1-13/16", 10% tolerance

15-941.....$4.95

2µF @ 360 VAC (900 VDC) RADIAL MYLAR

Mfg. - DMMA, 1-3/4" x 1" x 3/4"
1.6" lead space, 10% tolerance

15-931.....$2.99

2.2µF @ 250 VAC (600 VDC) BOX MYLAR

Mfg. - ERO, 1.58" x .66" x 1.25"
1.5" lead space, 10% tolerance

15-794.....$2.49

2.5µF @ 120 VAC (300 VDC) MYLAR

Mfg. - INTERCAP
1-5/16" x 11/16" x 5/16"

15-970.....$ .45

3.8µF @ 120 VAC (300 VDC) MYLAR

Mfg. - INTERCAP
1-5/16" x 3/4" x 3/8"

15-971.....$ .85

6.8µF @ 100 VDC BOX MYLAR

Mfg. - MALLORY
1.2" x .51" x .85"
5% tolerance, 1" lead space

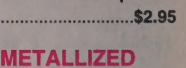
15-793.....$ .99

10µF @ 250 VDC BOX MYLAR

Mfg. - THOMSON, #MC106J2K
1-1/4" x 1-7/16" x 7/8"

15-988.....$2.95

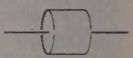
10µF @ 400 VDC METALLIZED POLYPROPYLENE



Mfg. - SPRAGUE
Mfg.# - 735P106X9400L
1-1/2"dia x 2-1/4", 10% tolerance

15-940.....$9.95

50µF @ 200 VDC AXIAL MYLAR

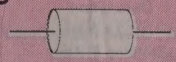


Mfg. - ASC, 1-7/8" x 2", 10% tolerance.
High current, high capacitance and low ESR.

15-930.....$12.95

HIGH VOLTAGE DC SNUBBER FILM CAPACITORS

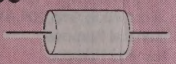
.1µF @ 3000 VDC



Mfg. - GE
Mfg.# - 42L4102
.96"dia x 1.68"L
10% tolerance. High current DC capacitance. Metallized polypropylene capacitors for applications including battery charging systems, industrial control, AC inverters, AC drives, UPS systems and power conditioning products.

15-975.....$1.99

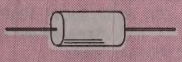
.33µF @ 2000 VDC



Mfg. - GE
Mfg.# - 42L3332
1"dia x 1.68"L
5% tolerance. High current DC application. Metallized polypropylene capacitors for applications including battery charging systems, industrial control, AC inverters, AC drives, UPS systems and power conditioning products.

15-979.....$1.75

10µF @ 400 VDC

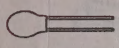


Mfg. - GE
Mfg.# - 40L3100
.81" x 1.02" x 2.18"
10% tolerance. High current DC capacitance. Metallized polypropylene capacitors for applications including battery charging systems, industrial control, AC inverters, AC drives, UPS systems and power conditioning products.

15-976.....$4.95

DIPPED TANTALUM

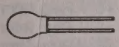
1µF @ 25 VOLT



Mfg. - THOMSON,
.1" lead space

15-990.....$ .09

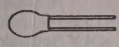
10µF @ 16 VOLT



Mfg. - AVX
Mfg.# - TAP106K016
.1" lead space

15-901.....$ .19

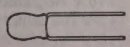
10µF @ 25 VOLT



Mfg. - KEMET
Mfg.# - T350E106M025
.1" lead space

15-922.....$ .25

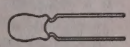
10µF @ 50 VOLT



Mfg. - KEMET
Mfg.# - T350K106M050
.2" lead space

15-226.....$ .75

22µF @ 25 VOLT

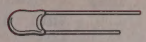


Mfg. - THOMSON
.2" lead space

15-974.....$ .29

AVX TANTALUMS *New*

1.5 µf @ 50 VOLT



Mfg. - TAP155K050FCS
.1" lead space, .55" lead length

82-103.....$ .08

2.2 µf @ 25 VOLT

Mfg. - TAP225M025GCD
.1" lead space, .25" lead length

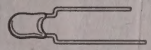
82-104.....$ .08

3.3 µf @ 16 VOLT

Mfg. - TAP335K016
.2" lead space, .3" lead length

82-105.....$ .07

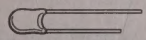
4.7 µf @ 25 VOLT



Mfg. - TAP475K025HSB
.25" lead space, .65" lead length

82-106.....$ .10

4.7 µf @ 35 VOLT



Mfg. - TAP475M035SCS
.1" lead space, .55" lead length

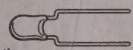
82-107.....$ .12

4.7 µf @ 35 VOLT

Mfg. - TAP475K035FCS
.2" lead space, .3" lead length

82-108.....$ .09

4.7 µf @ 35 VOLT



Mfg. - TAP475K035CRW
.2" lead space, .6" lead length
Tape reel, 10% tolerance

82-109.....$ .15

10 µf @ 35 VOLT

Mfg. - TAP106M035FCS
.1" lead space, .3" lead length

82-110.....$ .29

22 µf @ 16 VOLT

Mfg. - TAP226K016FCS
.2" lead space, .25" lead length

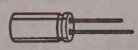
82-111.....$ .12

47 µf @ 16 VOLT

Mfg. - TAP476K016CCS
.2" lead space, .3" lead length

82-112.....$ .29

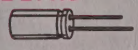
4700 µF @ 25V RADIAL LYTIC



Mfg. - REC
18mm x 36mm, 85°C

15-766.....$ .75

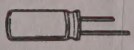
4700 µF @ 50V RADIAL LYTIC



Mfg. - ILLINOIS CAP
25mm x 51mm

		(1-99)	(100-Up)
15-855		$1.99	$1.50

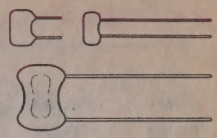
10,000 µF @ 35V RADIAL LYTIC



Mfg. - NICHICON
30mm x 50mm

15-915.....Radial.....$1.99

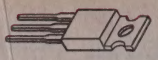
SILVER MICAS



* Short lead

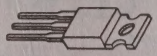
Part#	Value	(1-99)	(100-Up)
95-100	4pF @ 50 V	$ .25	$ .23
95-101	6pF @ 300 V	.20	.18
95-102	8pF @ 100 V	.20	.18
95-103	13pF @ 300 V*	.22	.20
95-104	15pF @ 500 V	.22	.20
95-105	18pF @ 50 V	.20	.18
95-106	18pF @ 300 V	.20	.18
95-107	24pF @ 300 V	.25	.23
95-108	27pF @ 100 V	.25	.23
95-109	27pF @ 300 V	.25	.23
95-110	36pF @ 300 V	.25	.23
95-111	39pF @ 100 V	.20	.18
95-112	39pF @ 300 V	.20	.18
95-113	43pF @ 300 V	.20	.18
95-114	43pF @ 500 V	.20	.18
95-116	75pF @ 50 V	.20	.18
95-117	98pF @ 300 V	.25	.23
95-118	109pF @ 300 V	.25	.23
95-119	115pF @ 300 V	.26	.24
95-120	140pF @ 300 V	.26	.24
95-121	150pF @ 500 V	.27	.25
95-122	154pF @ 300 V	.22	.20
95-123	156pF @ 300 V	.22	.20
95-124	160pF @ 500 V	.27	.25
95-125	180pF @ 50 V	.22	.20
95-126	180pF @ 300 V	.22	.20
95-127	200pF @ 300 V*	.20	.18
95-128	200pF @ 300 V	.22	.20
95-129	200pF @ 500 V	.26	.24
95-130	215pF @ 300 V	.20	.18
95-131	220pF @ 50 V	.22	.20
95-132	220pF @ 500 V	.25	.23
95-133	226pF @ 300 V	.20	.18
95-134	240pF @ 50 V	.20	.18
95-135	300pF @ 300 V	.25	.23
95-136	330pF @ 50 V	.26	.24
95-137	330pF @ 100 V*	.22	.20
95-138	345pF @ 500 V*	.26	.24
95-139	360pF @ 100 V	.20	.18
95-140	390pF @ 100 V	.25	.23
95-141	390pF @ 300 V	.28	.25
95-142	470pF @ 300 V	.28	.25
95-143	510pF @ 300 V*	.28	.25
95-144	542pF @ 300 V	.20	.18
95-145	620pF @ 100 V	.20	.18
95-146	657pF @ 300 V	.20	.18
95-147	680pF @ 300 V	.28	.25
95-148	684pF @ 300 V	.20	.18
95-149	690pF @ 300 V	.20	.18
95-150	695pF @ 300 V	.20	.18
95-151	720pF @ 300 V	.20	.18
95-152	750pF @ 300 V	.20	.18
95-153	800pF @ 300 V*	.20	.18
95-154	820pF @ 300 V	.20	.18
95-155	850pF @ 100 V	.25	.23
95-156	860pF @ 500 V*	.25	.23
95-158	1100pF @ 500 V	.32	.30
95-159	1200pF @ 300 V	.32	.30
95-160	1700pF @ 100 V*	.18	.15
95-161	1800pF @ 100 V	.25	.23
95-163	2200pF @ 500 V	.28	.25
95-164	2700pF @ 500 V	.28	.25
95-165	2700pF @ 1000 V*	.28	.25
95-166	3300pF @ 500 V	.28	.25
95-167	3700pF @ 500 V	.25	.23
95-168	6810pF @ 300 V	.25	.23

POWER MOSFETS

TO-220  HD-1

Part#	Package	Description	Price
IRF530	TO-220	Power Mosfet 100V 27 A	$1.15
IRF540	TO-220	Power Mosfet 100V 28 A	1.40
IRF730	TO-220	Power Mosfet 400V 5.5 A	.99
IRF740	TO-220	N-CH Mosfet 400V 10 A	1.29
IRF830	TO-220	N-CH Mosfet 500V 18 A	.75
IRF840	TO-220	Power Mosfet 500V 8 A	1.45
IRFD9123	HD-1	Hexfet 50V .8 A	.99
IRF9520	TO-220	P-CH Mosfet 100V 6 A	1.59
IRF9530	TO-220	P-CH Mosfet 100V 12 A	1.59
IRF9540	TO-220	P-CH Mosfet 100V 19 A	1.85
IRFP150	TO-247	N-CH Mosfet 100V 40 A	3.49
IRFP350	TO-247	N-CH Mosfet 400V 16 A	4.95
IRFP450	TO-247	N-CH Mosfet 500V 14 A	4.95
IRFZ20	TO-220	Power Mosfet 50V 7.5 A	.50
IRFZ34	TO-220	Power Mosfet 50V 29 A	1.35
IRFZ40	TO-247	Power Mosfet 50V 35 A	1.70
IRFZ42	TO-220	Power Mosfet 50V 51 A	1.95
IRFZ44	TO-220	Power Mosfet 60V 35 A	1.49

TIP TRANSISTORS

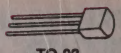
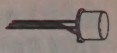
TO-220 

Part#	Case	Description	(1-99)	(100-Up)
TIP29A	TO-220	NPN, Power Output/switching	.45	.35
TIP29C	TO-220	NPN, Power Output/switching	.55	—
TIP30B	TO-220	PNP, Power Output/switching	.39	.35
TIP31C	TO-220	NPN, Power Output/switching	.45	.35
TIP32A	TO-220	NPN, Power Output/switching	.35	.29
TIP32B	TO-220	PNP, Audio Power Output	.39	.35
TIP32C	TO-220	PNP, Power Output/switching	.45	.42
TIP34A	TO-218	PNP, Power Amplifier	.75	.60
TIP35C	TO-218	NPN, Power Amplifier	1.75	1.65
TIP36A	TO-218	PNP, Power Amplifier	1.39	1.25
TIP36C	TO-218	PNP, Power Amplifier	2.25	1.95
TIP41B	TO-220	NPN, Audio PO/Switch	.69	.55
TIP41C	TO-220	NPN, Audio PO/Switch	.45	.39
TIP42A	TO-220	PNP, Audio Power Out	.39	.35
TIP42B	TO-220	PNP, Audio PO/Switch	.55	.49
TIP42C	TO-220	PNP, Audio PO/Switch	.59	.49
TIP47	TO-220	NPN, High Voltage, AF, SW	.49	.47
TIP49	TO-220	NPN, High Voltage, AF, SW	.60	.50
TIP50	TO-220	NPN, High Voltage, AF, SW	.69	.65
TIP102	TO-220	NPN, Darlington, 80V	.55	.49
TIP107	TO-220	PNP, Darlington, 100V	.69	.59
TIP110	TO-220	NPN, Darlington, 80V	.55	.49
TIP112	TO-220	NPN, Darlington, 80V	.71	.65
TIP115	TO-220	PNP, Darlington, 80V	.59	.55
TIP117	TO-220	PNP, Darlington, 80V	.71	.65
TIP120	TO-220	NPN, Darlington, 80V	.50	.45
TIP122	TO-220	NPN, Darlington, 80V	.71	.65
TIP125	TO-220	PNP, Darlington, 80V	.55	—
TIP127	TO-220	PNP, Darlington, 80V	.75	.69
TIP142	TO-218	NPN, Darlington	1.85	1.75
TIP147	TO-218	PNP, Darlington, 100V	1.29	1.19
TIP2955	TO-218	PNP, Power Amplifier	1.19	1.05
TIP3055	TO-218	NPN, Power Amplifier	.99	.85

JAPANESE SEMICONDUCTORS

Part#	Description	Price
BU806	NPN, SI HI VLTG Darlington	$1.35
MB3756	IV-VCR Control VLTG GEN	2.30
STR30130	IC-VLTG REG 130V 1A	3.89
TA7205	IC-AF PWR Output 5.8W	2.99
TA7222	IC-AF PWR Output 5.8W	1.89
D1341P	T-NPN, SI HI VLTG HORIZ Output	3.49
TDA1170	IC-TV VERT DEFL System	3.75
TDA1905	IC-5W Audio Amp/Muting	3.19
TDA2002	IC-AF Power Output 8W	1.15
TDA2003	IC-AF Power Output 10W	1.85
TDA2030	IC-AF Power Output 14W	3.99
TDA2040	IC-Audio Power Amp 22W	3.64
TDA7240	Power Amp	4.29

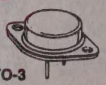
TRANSISTORS

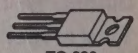
TO-3 TO-92  

Part#	Case	Description	(1-99)	(100-Up)
2N555	TO-3	T-PNP, GE-AF Power Output	$4.25	$3.95
2N918	TO-72	PNP, SI-Video IF Amp	.69	.45
PN2222	TO-92	NPN, General Purpose	.08	.05
PN2222A	TO-92	NPN, SI-AF/RF Amp	.06	.05
2N2222	TO-18	NPN, SI-AF/RF Amp	.16	.14
2N2222A	TO-18	NPN, General Purpose	.25	.22
2N2907	TO-18	PNP, General Purpose	.25	.22
PN2907A	TO-92	PNP, General Purpose	.10	.08
2N3053	TO-39	NPN, General Purpose	.50	.45
2N3054	TO-66	NPN, SI-Audio Power Output	1.50	1.25
2N3055	TO-3	NPN, Power BiPolar, Epitaxial Base	.59	.49
2N3668	TO-3	Diffused, 3 Function SCR, 12A, RMS 400V	3.95	—
2N3771	TO-3	NPN, Silicon Audio Amp, 30A, 40V, 150W	2.49	—
2N3904	TO-92	NPN, General Purpose	.06	—
2N3906	TO-92	PNP, General Purpose	.06	—
2N4103	TO-3	12A, 600V SCR	3.99	—
2N4123	TO-92	NPN, Gen Purpose Amp/sw	.15	.14
2N4125	TO-92	PNP, SI-AF Preamp, Driver	.15	.14
2N4400	TO-92	NPN, Gen Purpose Amp/sw	.10	.09
2N4401	TO-92	NPN, General Purpóse	.10	.09
2N4403	TO-92	PNP, General Purpose	.10	.09
2N6027	TO-92	T-Programmable Unijunction, SI	.35	.30
2N6386	TO-220AB	NPN, Darlington, 8A, 40V, 65W	1.25	—
BFY90	TO-72	RF Small Signal Transistor	.49	—
MJ410	TO-3	NPN, 5A, 200V	2.25	1.95
MJ10016	TO-3	NPN, 50A, 500V, 250W, 10hFE	14.95	
MJE9780	TO-220	PNP, 3A, 150V, Signal Power Transistor	1.49	—
MPSA06	TO-92	NPN, Medium Power	.15	.12
MPSA13	TO-92	NPN, Power Darlington	.15	.12
MPSA43	TO-92	NPN, SI-HI VLTG Gen Pur AMP	.35	.30
MPSA56	TO-92	PNP, SI-AF Preamp Driver	.15	.13
MPSA62	TO-92	PNP, SI Darlington Amp	.35	.30
MPSA66	TO-92	PNP, SI Darlington Amp	.15	.12
MTM8N10	TO-3	NPN, Power Mosfet, 100V	1.25	—

VOLTAGE REGULATORS

TO-92


TO-3


TO-220

Part#	Pins	Description	(1-99)	(100-Up)
7805	TO-220	+5 V Regulator 1Amp	$ .45	$ .39
7805K	TO-3	+5 V Regulator 1 Amp	1.89	1.75
7806	TO-220	+6 V Regulator 1 Amp	.45	.39
7808	TO-220	+8 V Regulator 1 Amp	.45	.39
7808K	TO-3	+8 V Regulator 1 Amp	1.25	.99
7812	TO-220	+12 V Regulator 1 Amp	.45	.39
7815	TO-220	+15 V Regulator 1 Amp	.45	.39
7815K	TO-3	+15 V Regulator 1 Amp	1.99	1.89
7824	TO-220	+24 V Regulator 1 Amp	.29	.25
78L05	TO-92	+5 V Regulator 100 mA	.39	.29
78L08	TO-92	+8 V Regulator 100 mA	.39	.29
78L12	TO-220	+12 V Regulator 100 mA	.39	.29
78L15	TO-92	+15 V Regulator 200 mA	.39	.29
78M05	TO-220	+5 V Regulator 500 mA	.45	.39
78M08	TO-220	+8 V Regulator 500 mA	.45	.39
78M15	TO-220	+15 V Regulator 500 mA	.45	.39
78M24	TO-220	+24 V Regulator 500 mA	.29	.25
7905	TO-220	-5 V Regulator 1 Amp	.39	.29
7906	TO-220	-6 V Regulator 1 Amp	.55	.49
7912	TO-220	-12 V Regulator 1 Amp	.45	.39
7915	TO-220	-15 V Regulator 1 Amp	.55	.49
79L05	TO-92	-5 V Regulator 100 mA	.39	.29
79M05	TO-202	-5 V Regulator 500 mA	.39	.29

1 AMP DIP

Low leakage
50 amp surge

Part#	Voltage	(1-99)	(100-up)
DF02	200	$ .42	$ .36
DF04	400	.44	.37
DF06	600	.46	.42
DF10	1000	.50	.45

1.5 AMP

3/8" diameter
Low leakage, 50 amp surge

Part#	Voltage	(1-99)	(100-up)
W005M	50	$ .29	$ .25
W04M	400	.39	.32
W06M	600	.42	.33
W10M	1000	.43	.35

2 AMP

11/16" x 1/2" x 1/4"
Low leakage, 60 amp surge

Part#	Voltage	(1-99)	(100-up)
KBP204	400	$ .54	$ .47
KBP206	600	.57	.52
KBP2010	1000	.62	.57

4 AMP

3/4" x 1/2" x 1/4"
Low leakage, 200 amp surge

Part#	Voltage	(1-99)	(100-up)
KBL402	200	$ .89	$ .80
KBL404	400	.99	.89
KBL407	1000	1.25	1.10

4 AMP 600 VOLT

Mfg. - GI
Mfg.# - KBU4J
7/8" x 3/4" x 3/16"

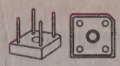
KBU4J.....$ .75

4 AMP 800 VOLT

Mfg. - DIODES, INC.
Mfg.# - RS406L
3/4" x 9/16" x 1/4"

RS406.....$ .75

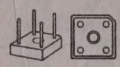
6 AMP



5/8" square x 1/4"
Low leakage, 150 amp surge

Part#	Voltage	(1-99)	(100-up)
KBPC602	200	$.95	$ .85
KBPC604	400	1.16	.99

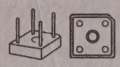
8 AMP



3/4" square x 5/16"
Low leakage, 125 amp surge

Part#	Voltage	(1-99)	(100-up)
KBPC802	200	$1.19	$1.05
KBPC804	400	1.25	1.10
KBPC808	800	1.49	1.35

10 AMP



1-1/8" sq x 7/16"
Low leakage, 200 amp surge

Part#	Voltage	(1-99)	(100-up)
KBPC1002	200	$2.25	$1.99
KBPC1004	400	2.45	2.19
KBPC1008	800	2.55	2.25

15 AMP

1-1/8" sq x 5/16", low leakage
1/4" Faston terminals, 300 amp surge

Part#	Voltage	(1-99)	(100-up)
KBPC1502	200	$2.39	$2.15
KBPC1504	400	2.55	2.29
KBPC1508	800	2.69	2.35

STEPPER MOTOR DRIVER

Mfg. - PHILLIPS, #SAA1027
16 pin dip package. 4 outputs for driving 4 phase stator. Rated at 10-18 V @ 500 mA. Features high noise immunity input logic direction selection and protected outputs.

SAA1027.....$9.95

L6560

Mfg. - SGS
8 pin dip. Power factor corrector
Multipower BCD technology

L6560.....$ .75

25 AMP

1-1/8" square metal case
with 1/4" Faston terminals
300 amp surge

Part#	Voltage	(1-99)	(100-up)
KBPC2504	400	$2.69	$2.43
KBPC2506	600	2.89	2.59
KBPC2510	1000	2.99	2.79

35 AMP

1-1/8" square metal case
with 1/4" Faston terminals
400 amp surge

Part#	Voltage	(1-99)	(100-up)
KBPC3504	400	$2.79	$2.59
KBPC3506	600	2.99	2.75
KBPC3510	1000	3.49	3.25

HORIZONTAL OUTPUT

Popular output transistor used in Japanese made TVs. Replaces 2SC1308, 2SC1172, ECG165, ECG238 and many more.

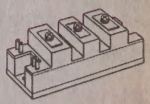
D1341P.....$3.49

HA13426

Mfg. - HITACHI

HA13426.....$ .75

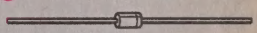
POWER MODULE TRANSISTOR



Mfg. - FUJI
Mfg.# - 2D150A-120
M204 Pkg. 50 amp
1200 volt, 800 watt
Module type/electrically isolated package.

2D150A120.....$19.95

DB3 DIACS



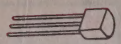
DO-35 Pkg.
27 V_{BO} min., 37 V_{BO} max.
50 I_{BO} min. (equal to HT-32 & ST2)

	(1-99)	(100-Up)
DB3	$ .31	$ .21

OPTOISOLATORS

Part#	Pins	Description	Isolation (kV)	(1-99)	(100-up)
4N25	6	Diode, NPN photo transistor	2.5	.39	.29
4N26	6	Diode, NPN photo transistor	1.5	.39	.29
4N27	6	NPN phototransistor	1.5	.35	.29
4N29	6	Transistor output	----	.29	.22
4N32	6	Diode, NPN photo-darlington	2.5	.29	.25
4N35	6	NPN optoisolator	3.5	.39	.35
4N36	6	Phototransistor	2.5	.49	.39
4N37	6	Diode, NPN photo transistor	1.5	.35	.29
4N39	6	SCR Photo output transistor		.35	.29
4N45	6	High gain optoisolator	3	.39	.35
6N136	8	High speed NPN transistor	2.5	.99	.89
6N137	8	Very high speed logic coupler	2.5	1.09	.99
6N138	8	High speed, high gain darlington	2.5	.99	.89
6N139	8	High speed, high gain darlington	2.5	1.25	1.15
CNY17-2	6	NPN phototransistor	5.3	.25	.19
CNY17II	6	NPN phototransistor	7.5	.25	.19
CNX35U	6	NPN transistor output	----	.25	.19
H11A1	6	NPN optoisolator	4	.45	.39
H11B1	6	Optoisolator/Transistor Output	2.5	.39	.29
H11C3	6	Photo SCR output	5	.95	.85
H11AA1	6	Dual infrared diode, NPN photo transistor	2.5	.59	.45
H11AV3A	6	Opto coupler 70 BV/CEO	----	.29	.25
IL201	6	NPN transistor output	----	.45	.39
MOC3010	6	Bilateral triac driver	7.5	.64	.45
MOC3011	6	Bilateral triac driver	7.5	.64	.45
MOC3031	6	Zero crossing triac driver	7.5	.75	.69
MOC3041	6	Opto coupler/triac	7.5	.85	.79
MOC3062	6	Optically isolated triac driver	----	.99	.89
MOC5008	6	Schmitt trigger	----	.89	.79
TIL-111	6	NPN transistor output	1.5	.75	.69

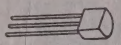
2N3904



NPN transistor
TO-92 case - plastic

2N3904.....$ .06

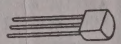
2N3906



PNP transistor
TO-92 case - plastic

2N3906.....$ .06

PN2222A



Mfg. - SAMSUNG
NPN, SI-AF/RF AMP
TO-92 case - plastic

	(1-999)	(1K-Up)
PN2222A	$ .06	$ .05

2N3055

NPN power transistor
TO-3 pkg

	(1-99)	(100-Up)
2N3055	$ .59	$ .49

2N2646

Mfg. - MOTOROLA
Unijunction thryistor triggers, TO-18 pkg

2N2646.....$2.99

2N2647

Mfg. - GE
Unijunction, TO-18 pkg

2N2647.....$1.75

2N2147

TO-3 pkg
Transistor, geramium
AF power output

2N2147.....$3.49

SURFACE MOUNT TRANSISTORS

SOT-23 package

IMBT2222A	NPN SMD 350 mW	$ .20
IMBT2907A	PNP SMD 350 mW	$ .20
IMBT3904	NPN SMD 350 mW	$ .20
IMBT3906	PNP SMD 350 mW	$ .20
IMBT4401	NPN SMD 350 mW	$ .20
IMBT4403	PNP SMD 350 mW	$ .20

SURFACE MOUNT DIODES

DL-41 package *SPECIAL*

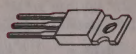
Part#	*Description*	*Price*
1N4001SM	1amp 50 volt	$ .08
1N4004SM	1amp 400 volt	$ .08
1N4007SM	1amp 1000 volt	$ .08

Mini-Melf Package

1N4148SM.....10 mA 75 volt.....$ .08

TRIACS

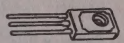
SGS-THOMSON MICROELECTRONICS ®



Mfg. - SGS
TO - 220 Pkg.

	(1-99)	(100-Up)
6 amp 600 volt **BTA06-600B**	$ .75	$ .65
8 amp 700 volt **BTB08-700TW**	$ .75	$ .65
10 amp 600 volt **BTB10-600C**	$ .75	$ .70
25 amp 600 volt **BTB24-600B**	$2.25	$1.99

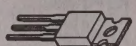
4 AMP SCR



4 amp 400 volt

C106D.....TO-126.....$ .49

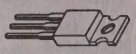
BU806



NPN silicon high voltage,
high current, fast switching
Darlington transistor, TO-220 pkg

BU806.....$1.35

MAC3030-8



Mfg. - MOTOROLA
TO-220 Pkg., Triac, 8 amp @ 250 volt

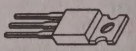
MAC3030-8.....$ .59

2N2222

NPN, SI-AF/RF AMP
TO-18 case

	(1-99)	(100-Up)
2N2222	$ .16	$ 14

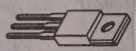
2N6349A



TO-220 Pkg.
15 amp 800 volt, Triac

2N6349A.....$1.85

BUX84F



Mfg. - SGS
NPN high voltage switching transistor
TO-220 package fully isolated

BUX84F.....$ .99

L4805CV

Mfg. - SGS, TO-220 pkg
5 volt regulator with Input/Output drop of .4 volt with 400mA output current. Spec sheet included.

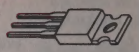
L4805CV.....$ .75

L387A

Mfg. - SGS
Pentawatt packaged
Very low drop 5V regulator with reset.

L387A.....$1.75

10 AMP TRANSISTORS



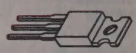
60 VOLT
TO-220 package, 50 watt

D44H8.....NPN.....$1.35
D45H8.....PNP.....$1.09

80 VOLT
TO-220 package, 50 watt

D44H11.....NPN.....$1.09
D45H11.....PNP.....$1.09

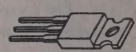
D4020L POWER RECTIFIER



Mfg. - TECCOR
20 amp 400 volt
TO-220

D4020L.....$1.29

MAC15-6



Mfg. - MOTOROLA
TO-220 Pkg., Triac, 15 amp @ 400 volt

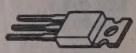
MAC15-6.....$ .99

MJ4502

Mfg. - MOTOROLA
PNP transistor, 30 amp @ 100 volt
Silicon audio amp. TO-3 pkg

	(1-49)	(50-Up)
MJ4502	$2.75	$2.49

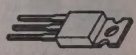
MJE13005



TO-220 Pkg.
4 amp, 300 volt, 60 watts
NPN. Fast switching power transistor.

MJE13005.....$ .99

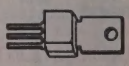
MJE13007



TO-220 Pkg.
8 amp, 400 volt, 80 watts
NPN. Fast switching power transistor.

MJE13007.....$1.69

MPSU01A



TO-202 case
NPN silicon transistor
Hi-voltage amplifier & driver

MPSU01A.....$ .99

PMD16K120

Mfg. - LAMBDA
NPN Darlinton transistor.
20 amp @ 120 volt, 150 watt.
hFE=1K min, 20K max. TO-3 pkg

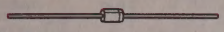
PMD16K120.....$2.75

2N3439

NPN, High Volatge
High Current Amplifier, 40 h_{FE}
350 V_{BR} CEO min, 1000 I_C mA max

2N3439.....TO-39 Pkg.....$ .99

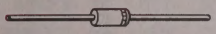
1 AMP DIODES



DO-41 package

Part#	Voltage	(1-999)	(1K-up)
1N4001	50	$ .04	$ .03
1N4002	100	.06	.05
1N4003	200	.07	.06
1N4004	400	.07	.06
1N4005	600	.08	.07
1N4006	800	.08	.07
1N4007	1000	.08	.06

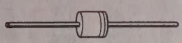
3 AMP DIODES



DO-27 package

Part#	Voltage	(1-999)	(1K-up)
1N5400	50	$ .15	$ .14
1N5401	100	.16	.15
1N5402	200	.17	.16
1N5403	300	.18	.17
1N5404	400	.19	.18
1N5405	500	.20	.19
1N5406	600	.21	.20
1N5407	800	.22	.21
1N5408	1000	.23	.22

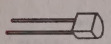
6 AMP DIODES



R-6 package

Part#	Voltage	(1-999)	(1K-up)
6A05	50	$ .25	$ .22
6A1	100	.26	.23
6A2	200	.27	.24
6A4	400	.28	.26
6A6	600	.30	.28
6A8	800	.30	.28
6A10	1000	.32	.30

VOLTAGE VARIABLE CAPACITANCE DIODES



Voltage-variable, AFC silicon encap diode
Case - 182 (two lead TO-92)

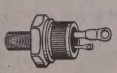
Part#	Description	Price
MV209	26-32 pF	$ .35
MV2101	6.1-7.5 pF	.35
MV2209	29-37 pF	.35
MV2109	29.7-36.3 pF	.45
MV1662	Goes to 275 pF	.35

VARACTOR TUNING DIODES

Mfg. - MOTOROLA
Mfg.# - SMV1662M3
Total Capacitance - 275 pF. Leads formed for insertion. Set of 3 matched diodes.

MV1662/S.....Set of 3/$1.00

2N5444



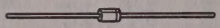
40 amp 200 volt triac
TO-48 package

2N5444.....$6.95

ZENER DIODES

Part#	Voltage	Watt	(1-999)	(1K-up)
1N746A	3.3	250 mW	$ .12	$ .09
1N4739A	9.1	250 mW	.12	.09
1N963	12	400 mW	.12	.09
1N5256	30	400 mW	.12	.09
1N5229	4.3	500 mW	.12	.09
1N5235	6.8	500 mW	.12	.09
1N5245	15	500 mW	.12	.09
1N5247B	17	500 mW	.12	.09
1N4728A	3.3	1 W	.12	.09
1N4729A	3.6	1 W	.12	.09
1N4730A	3.9	1 W	.12	.09
1N4731A	4.3	1 W	.12	.09
1N4732A	4.7	1 W	.12	.09
1N4733A	5.1	1 W	.12	.09
1N4734A	5.6	1 W	.12	.09
1N4735A	6.2	1 W	.12	.09
1N4736A	6.8	1 W	.12	.09
1N4737A	7.5	1 W	.12	.09
1N4738A	8.2	1 W	.12	.09
1N4740A	10	1 W	.12	.09
1N4741A	11	1 W	.12	.09
1N4742A	12	1 W	.12	.09
1N4743A	13	1 W	.12	.09
1N4744A	15	1 W	.12	.09
1N4745A	16	1 W	.12	.09
1N4746A	18	1 W	.12	.09
1N4747A	20	1 W	.12	.09
1N4748A	22	1 W	.12	.09
1N4749A	24	1 W	.12	.09
1N4760A	68	1 W	.12	.09
1N4764A	100	1 W	.12	.09

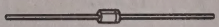
1N34



Germanium diode
75 PRV, DO-7 package

	(1-999)	(1K-up)
1N34	$ .20	$ .17

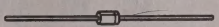
1N914



SI fast switching diode
75 volt, 75 mA, DO-35 package

	(1-999)	(1K-up)
1N914	$ .05	$ .04

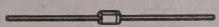
1N4148



SI fast switching diode
75 volt, 200 mA, DO-35 package

	(1-999)	(1K-4999)	(5K-up)
1N4148	$ .05	$ .04	$ .03

1N5820

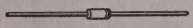


Mfg. - MOTOROLA
Schottky rectifier, Io=3 amp, V_R=20 volt
1N5820.....$ .35

2.5 AMP @ 1kV

	(1-999)	(1K-up)
HE007	$ .20	$ .17

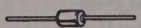
MR501



Recovery power rectifier
3 amp 100 volt, DO-201 package

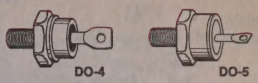
	(1-999)	(1K-up)
MR501	$ .20	$ .17

MR851



Mfg. - MOTOROLA
Fast recovery rectifiers, Io=3 amp, IFSM=100 amp. 100° VRRM
MR851.....$ .35

STUD MOUNT SILICON RECTIFIERS



CATHODE-TO-STUD

20 amp @ 400V (D0-4)
20F40.....$1.29

20 amp @ 600V (D0-4)
20F60.....$1.35

40 amp @ 200V (D0-5)
40HF20.....$1.99

40 amp @ 400V (D0-5)
40HF40.....$2.35

40 amp @ 600V (D0-5)
40HF60.....$2.25

ANODE-TO-STUD

20 amp @ 400V (D0-4)
20FR40.....$1.29

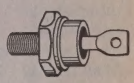
20 amp @ 600V (D0-4)
20FR60.....$1.35

40 amp @ 200V (D0-5)
40HFR20.....$1.99

40 amp @ 400V (D0-5)
40HFR40.....$2.35

40 amp @ 600V (D0-5)
40HFR60.....$2.25

STUD MOUNT RECTIFIERS



12 amp @ 200V (D0-4)
1N1202.....$1.49

12 amp @ 200V (D0-4) Fast recovery
1N3891.....$2.75

12 amp @ 200V (D0-4) Fast recovery
1N3891R.....$2.75

12 amp @ 400V (D0-4) Fast recovery
1N3893.....$2.99

12 amp @ 400V (D0-4) Fast recovery
1N3893R.....$2.99

35 amp @ 150V (D0-5)
1N1185.....$1.49

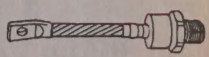
35 amp @ 150V (D0-5)
1N1185R.....$1.49

35 amp @ 400V (D0-5)
1N1188A.....$2.49

Cathode-to-stud unless "R" suffix then it is anode-to-stud.

275 AMP @ 600 VOLT SILICON RECOVERY RECTIFIER

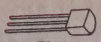
Mfg. - IR
DO-9 Case
Stud mount



1N4052.....cathode to stud.....$19.95
1N4052R.....anode to stud.....$19.95

LOGIC TRIACS (1 TO 8 AMPS)

TECCOR ELECTRONICS, INC.


TO-92

TO-220AB Isolated

TO-220AB Non-Isolated

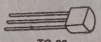
Package type: * UL

I = Isolated Case / N = Non Isolated Case

Part#	Case Type	Pkg Type	IT RMS Max. (A)	VDRM Min. (V)	IGT Max. (mA)	(1-99)	(100-Up)
L201E3	TO-92	I	1	200	3	$ .95	$ .84
L401E3	TO-92	I	1	400	3	1.15	.95
L601E3	TO-92	I	1	600	3	1.30	1.05
L401E5	TO-92	I	1	400	5	.99	.82
* L4004L3	TO-220AB	I	4	400	3	1.65	1.49
L4004F31	TO-220AB	N	4	400	3	1.35	1.09
L6004F31	TO-220AB	N	4	600	3	1.49	1.15
L4004F51	TO-220AB	N	4	400	5	1.25	.99
* L4008L6	TO-220AB	I	8	400	5	1.99	1.65
* L6008L6	TO-220AB	I	8	600	5	2.35	1.75

GATED TRIACS (1 TO 15 AMPS)

TECCOR ELECTRONICS, INC.


TO-92

TO-220AB Isolated

TO-220AB Non-Isolated

Package type: * UL

I = Isolated Case / N = Non Isolated Case

Part#	Case Type	Pkg Type	IT RMS Max. (A)	VDRM Min. (V)	IGT Max. (mA)	(1-99)	(100-Up)
Q401E3	TO-92	I	1	400	10	$ .89	$ .69
* Q4004L3	TO-220AB	I	4	400	10	1.79	1.45
* Q4004L4	TO-220AB	I	4	600	25	1.55	1.25
* Q6004L4	TO-220AB	I	4	600	25	1.85	1.45
Q4004F31	TO-220AB	N	4	400	10	1.15	.89
Q4004F41	TO-220AB	N	4	400	25	1.05	.85
* Q4008L4	TO-220AB	I	8	400	25	1.85	1.45
* Q6008L5	TO-220AB	I	8	600	25	1.95	1.65
Q4008R4	TO-220AB	N	8	400	25	1.45	1.15
Q6008R5	TO-220AB	N	8	600	50	1.69	1.35
Q6010R5	TO-220AB	N	10	600	50	2.15	1.75
* Q4015L5	TO-220AB	I	15	400	50	2.25	1.85
Q4015R5	TO-220AB	N	15	400	50	2.15	1.75
Q6015R5	TO-220AB	N	15	600	50	2.65	2.15

QUADRAC, INTERNALLY TRIGGERED TRIACS (4 TO 15 AMPS)

TECCOR ELECTRONICS, INC. * UL

TO-220AB Isolated

Package type:

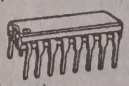
I = Isolated Case

Part#	Case Type	IT RMS Max. (A)	VDRM Min. (V)	(1-99)	(100-Up)
* Q2004LT	TO-220AB	4	200	$1.75	$1.39
* Q4004LT	TO-220AB	4	400	1.85	1.49
* Q6004LT	TO-220AB	4	600	2.15	1.75
* Q4008LT	TO-220AB	8	400	2.05	1.69
* Q2015LT	TO-220AB	15	200	2.45	2.05
* Q4015LT	TO-220AB	15	400	2.75	2.25

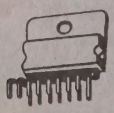
STEPPER MOTOR DRIVER

Mfg.# - TEA3718SP/DP

Intended to drive a bipolar constant current through one motor winding for maximum motor performance. Has half and full step modes. Can drive up to 50 volts and 1.5 amps per phase. Built-in diodes and thermal protection. 16 pin dip package. Spec sheet included.

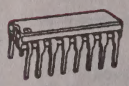


16 pin dip package
TEA3718DP.....$3.95



Multiwatt - 15 package
TEA3718SP.....$5.95

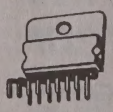
QUAD DARLINGTON SWITCH



Mfg. - SGS

Monolithic quad darlington switch for up to 1.8 amp, 50 volt. Comes with spec sheet.

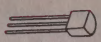
Dip Package
L6221A.....$1.49



Multiwatt 15 pkg.
Dip Package
L6221N.....$2.75

SENSITIVE SCRs (.8 TO 10 AMPS)

TECCOR ELECTRONICS, INC.


TO-92

TO-220AB Isolated

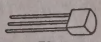
TO-202AB

Package type: * UL

I = Isolated Case / N = Non Isolated Case

Part#	Case Type	Pkg Type	IT RMS Max. (A)	VDRM & VRRM Min. (V)	IDRM & IRRM @ 25°C Max. (uA)	(1-99)	(100-Up)
EC103A	TO-92	I	.8	100	1	$ .43	$ .39
EC103B	TO-92	I	.8	200	1	.45	.40
EC103D	TO-92	I	.8	400	1	.46	.43
EC103M	TO-92	I	.8	600	2	.59	.51
2N5062	TO-92	I	.8	100	1	.40	.35
2N5064	TO-92	I	.8	200	1	.35	.30
TCR22-8	TO-92	I	1.5	600	2	.52	.45
* S2003LS2	TO-220AB	I	3	200	1	1.05	.92
T106B1	TO-202AB	N	4	200	2	.65	.55
T106D1	TO-202AB	N	4	400	2	.72	.65
T106M1	TO-202AB	N	4	600	2	.88	.75
* S4010LS2	TO-220AB	I	10	400	.005	1.25	1.15

NON-SENSITIVE SCRs (1 TO 70 AMPS)


TO-92

TO-220AB Isolated

TO-220AB Non-Isolated

TECCOR ELECTRONICS, INC.

Package type: * UL

I = Isolated Case / N = Non Isolated Case

TO-218X

Part#	Case Type	Pkg Type	IT RMS Max. (A)	VDRM & VRRM Min. (V)	IGT Max. (uA)	(1-99)	(100-Up)
S401E	TO-92	I	1	400	10	$ .60	$ .55
S601E	TO-92	I	1	600	10	.67	.59
* S4006L	TO-220AB	I	6	400	15	1.15	.95
* S4008L	TO-220AB	I	8	400	15	1.25	1.05
S4008R	TO-220AB	N	8	400	15	1.05	.93
* S4010L	TO-220AB	I	10	400	15	1.45	1.25
* S6010L	TO-220AB	I	10	600	15	1.39	1.25
S6012R	TO-220AB	N	12	600	20	1.42	1.20
* S4015L	TO-220AB	I	15	400	30	1.49	1.29
* S6015L	TO-220AB	I	15	600	30	1.75	1.49
* S4020L	TO-220AB	I	20	400	30	1.79	1.54
* S6020L	TO-220AB	I	20	600	30	1.99	1.75
* S4025L	TO-220AB	I	25	400	30	2.35	1.99
* S6025L	TO-220AB	I	25	600	30	2.49	2.15
* S4055W	TO-218X	N	55	400	40	4.65	3.99
* S4065J	TO-218X	I	65	400	50	6.25	5.65
* S6065J	TO-218X	I	65	600	50	7.25	6.35
S6070W	TO-218X	N	70	600	50	6.15	5.35

ALTERNISTORS (15 TO 40 AMPS)

TO-220AB Isolated

TO-218AC

TO-218X

TO-3 Base

Package type: * UL

I = Isolated Case / N = Non Isolated Case

TECCOR ELECTRONICS, INC.

Part#	Case Type	Pkg Type	IT RMS Max. (A)	VDRM Min. (V)	IGT Max. (mA)	(1-99)	(100-Up)
* Q4015L6	TO-220AB	I	15	400	80	$2.45	$2.19
* Q6015L6	TO-220AB	I	15	600	80	2.79	2.55
* Q4025L6	TO-220AB	I	25	400	80	3.99	3.75
Q4025R6	TO-220AB	N	25	400	80	4.05	3.65
Q6025R6	TO-220AB	N	25	600	80	4.75	3.99
* Q4025P	Fastpak	I	25	400	80	7.99	6.99
* Q6025P	Fastpak	I	25	600	80	9.39	7.99
* Q4040J7	TO-218X	I	40	400	100	7.25	6.25
* Q4040K7	TO-218AC	I	40	400	100	7.35	6.25
* Q4040P	Fastpak	I	40	400	100	9.99	8.49
* Q6040P	Fastpak	I	40	600	100	11.45	9.75

POWER RECTIFIERS

TO-220AB Isolated

TECCOR ELECTRONICS, INC. * UL

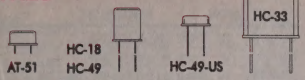
These Teccor power rectifiers come in an electrically-isolated TO-220 package, which allows them to be used in common anode or common cathode circuits using only one part type, thereby simplifying customer's stock requirements.

Features: • Electrically-isolated packages • High voltage capabilities • Glass-passivated junctions • High surge capabilites

I = Isolated Case / N = Non Isolated Case

Part#	Case Type	Pkg Type	IF RMS Max. (A)	VRRM Min. (V)	VR Min. (V)	(1-99)	(100-Up)
* D4015L	TO-220AB	I	15	400	400	$1.49	$1.25
* D6015L	TO-220AB	I	15	600	600	1.59	1.37
* D2020L	TO-220AB	I	20	200	200	1.41	1.25

CRYSTALS

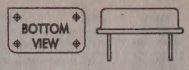


Part#	MHz	Case	(1-99)	(100-up)
23-192	1	HC-33	$4.95	$4.49
23-149	1.8432	HC-33	1.25	.75
23-117	2	HC-33	1.75	1.49
23-150	2.4576	HC-18	.99	.85
23-151	3.2768	HC-18	.99	.75
23-109	3.57954	HC-18	.99	.75
23-110	3.57954	HC-33	.75	.45
23-164	3.6864	HC-18	.99	.75
23-152	4	HC-18	.75	.45
23-190	4	AT-51	.99	.75
23-185	4.194304	HC-33	.49	.39
23-165	4.9152	HC-18	.99	.75
23-153	5	HC-18	.99	.75
23-111	5.0688	HC-18	.99	.75
23-154	6	HC-18	.99	.75
23-101	6.6520	HC-18	.49	.39
23-156	8	HC-18	.99	.75
23-157	10	HC-18	.89	.75
23-112	11	HC-18	.75	.55
23-188	11	HC-49-US	.65	.49
23-174	11.0592	HC-49-US	.99	.75
23-158	12	HC-18	.85	.69
23-114	14.31818	HC-18	.85	.69
23-115	14.7456	HC-18	.75	.59
23-159	16	HC-18	.99	.75
23-160	18	HC-18	.99	.75
23-173	18.432	HC-18	.75	.59
23-161	20	HC-18	.99	.75
23-162	24	HC-18	.99	.75
23-163	32	HC-18	.99	.75
23-175	57.2727	HC-18	.99	.75

32.768 KHz CYLINDER TYPE QUARTZ CRYSTAL

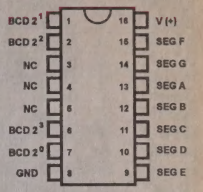
		(1-99)	(100-up)
23-118	32.768 KHz	$ .40	$ .29

TTL CRYSTAL CLOCK OSCILLATORS



Part#	MHz	(1-99)	(100-up)
23-119	1	$2.65	$1.99
23-120	1.8432	2.25	1.99
23-103	2.1	1.99	1.75
23-168	2.4576	1.99	1.75
23-187	2.4576 Half Can	1.49	1.25
23-123	3.6864	1.99	1.75
23-124	4	1.99	1.75
23-104	4.8064	1.99	1.75
23-169	6	1.99	1.75
23-194	6.291456	1.99	1.75
23-183	6.4	1.49	1.25
23-126	7.3728	1.99	1.75
23-127	8	1.49	1.25
23-128	9.8304	1.99	1.75
23-129	10	2.45	1.95
23-130	12	1.99	1.75
23-186	14.31818	1.49	1.25
23-131	16	1.99	1.75
23-184	16.384	1.49	1.25
23-132	20	1.99	1.75
23-133	21.5827	1.49	1.25
23-134	24	1.99	1.75
23-135	25.175	1.99	1.75
23-136	30	1.49	1.25
23-180	32	1.99	1.75
23-193	32.768	1.99	1.75
23-137	32.5	1.99	1.75
23-139	36	1.99	1.75
23-140	36.3636	1.99	1.75
23-141	40	1.99	1.75
23-142	44.6	1.99	1.75
23-143	50	1.99	1.75
23-144	60	1.99	1.75
23-145	63.98	1.99	1.75
23-167	66.6666	1.99	1.75
23-182	80	1.99	1.75
23-146	95	1.99	1.75
23-147	107.352	1.99	1.75
23-195	108.7534	1.99	1.75

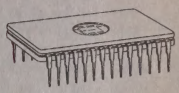
CA3161 BCD-TO-7 SEGMENT DECODER/DRIVER



This monolithic IC performs the BCD-to-7 segment decoding function and features constant current (25 mA) segment drivers. TTL-compatible input logic levels eliminates need for output current-limiting resistors. Pin compatible with other industry standard decoders. 18 mW power dissipation. Spec sheet included.

CA3161.....$1.75

EPROMS



Part#	Description	Speed	Price
27C64-25	8K x 8 64K*	250 ns	$2.49
27C64-15	8K x 8 64K*	150 ns	2.95
2764-2	8K x 8 64K	200 ns	3.45
27C64-2	8K x 8 64K*	200 ns	2.75
27C128-15	16K x 8 128K*	150 ns	3.59
27128A-2	16K x 8 128K	200 ns	2.75
27256-10	32K x 8 256K	100 ns	3.95
27C256-12	32K x 8 256K*	120 ns	3.49
27C256-15	32K x 8 256K*	150 ns	2.99
27C256-2	32K x 8 256K*	200 ns	2.89
27C512-15	64K x 8 512K*	150 ns	3.35
27C512-2	64K x 8 512K*	200 ns	2.95
27C010-12	128K x 8 1024K*	120 ns	4.49
27C010-2	128K x 8 1024K*	200 ns	3.49

*CMOS

COLOR BURST CRYSTAL

3.57954 MHz HC-49/US

23-196.....$ .75

SIGNETIC SERIES PROMS

Part#	#Pins	Description	(1-49)	(50-Up)
82S23	16	256-bit Open Collector	$3.95	$3.75
82S129	16	1024-bit (256x4) Tri-State	1.69	1.50
82S131	16	2048-bit (512x4) Tri-State	2.49	2.35
82S147	20	4096-bit (512x8) Tri-State	2.49	2.35

METAL OXIDE VARISTORS (MOV)

Part#	Dia.	VAC RMS	VDC Max	Max Clamping Amps	Joules	(1-99)	(100-UP)
V8ZA2	10mm	4	5.5	5	.8	$ .45	$ .35
V12ZA2	10mm	6	8	5	1.2	.45	.35
V130LA1	7mm	130	175	10	11	.35	.29
V130LA10A	14mm	130	175	50	38	.51	.46
V130LA20B	20mm	130	175	100	70	.69	.65
V150LA1	8mm	150	200	10	13	.25	.19
Z150LA2	7mm	150	200	10	13	.19	.15
V150LA10A	14mm	150	200	50	45	.64	.59
V150LA20B	20mm	150	200	100	80	.59	.55
V150ZA8	16mm	95	127	50	30	.42	.35
V250LA20A	14mm	250	330	50	72	.45	.35
V250LA40B	20mm	250	330	100	130	.79	.75
V275LA40B	20mm	275	369	100	140	.79	.75
V420LA20A	16mm	420	560	50	90	.59	.55
V420LA40	20mm	420	560	100	160	.99	.89
V420LA40A	21mm	420	560	50	160	.99	.89
V660LA100B	20mm	660	850	100	140	.89	.75
S14K130	14mm	130	175	50	55	.35	.29
S14K275	16mm	275	370	50	100	.35	.29
S20K150	20mm	150	200	----	79	.29	.25

METAL OXIDE VARISTORS (MOV)

NTE

Part#	VAC RMS	VDC Max	(Joules)	Max Clamping (Amps)	Price
NTE2V014	14	18	4	1000	$1.75
NTE2V015	15	20	4.5	1000	1.75
NTE1V020	20	26	1.5	250	.99
NTE2V020	20	26	6	1000	1.75
NTE1V025	25	31	1.7	250	.99
NTE1V030	30	38	2.3	250	.99
NTE2V030	30	38	8.5	1000	1.75
NTE2V035	35	45	10	1000	1.75
NTE2V115	115	150	35	4500	1.75
NTE1V130	130	180	10	1200	.99
NTE2V130	130	180	39	4500	1.75
NTE1V150	150	210	10	1200	1.25
NTE2V150	150	210	40	4500	1.75
NTE1V250	250	320	20	1200	1.45
NTE2V250	250	320	70	4500	2.49
NTE2V275	275	330	72	4500	2.49
NTE1V300	300	370	22	1200	1.69

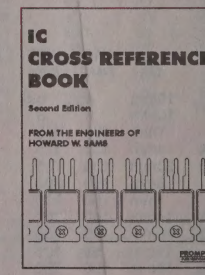
LINEARS

PART#	#PINS	DESCRIPTION	1-99	100-UP
TL064CN	14	Low Power JFet Op Amp	$ .75	$ .64
TL072CN	8	Low Noise JFet Dual Op Amp	.65	.55
TL082CP	8	J fet Dual Op Amp GP	.49	.45
TL084CN	14	Bifet Quad Op Amp GP	.69	.59
LM211P	8	High Performance Voltage	.85	.75
MAX232CPE	16	Dual RS232 Rec/Tran	1.75	1.55
LM301N	8	Op Amp	.45	.39
LM307	8	Op Amp	.69	.59
LM308	8	Micro Power Op Amp	.69	.59
LM308H	TO-5	Micro Power Op Amp	.75	.65
LM309H	TO-5	+5V Regulator	2.95	2.75
LM309K	TO-3	5V 1A Voltage Regulator	3.49	2.22
LM310N	8	Voltage Follower Op Amp	1.29	1.19
LM311N	8	Hi-Perf Voltage Comparator	.45	.39
LM317K	TO-3	Adj + Reg 1.2-37V 1.5A	1.95	1.75
LM317LZ	TO-92	Adj + Reg 1.2-37V 1.5A	.45	.39
LM317T	TO-220	Adj + Reg 1.2-37V 1.5A	.49	.45
LM318H	TO-5	High Slew Rate Op Amp	2.75	2.49
LM318N	14	High Speed Op Amp	.69	.59
LM319N	14	High Speed Dual Comparator	.69	.45
LM323K	TO-3	+ 3-Term 5V 3A Regulator	2.95	2.75
LM324N	14	Quad Op Amp	.35	.29
LM329Z2	TO-92	Precision Zener 6.9V	.45	.29
LM330T-5	TO-220	Positive Regulator	.64	.59
LM334Z	TO-92	Adjustable Current Source	.75	.69
LM335Z	TO-92	Voltage Mode Temp Sensor	1.19	1.09
LM337K	TO-3	Adj Neg Reg -1.2 - 37V 3 A	3.99	3.75
LM337T	TO-220	Adj Neg Reg -1.2 - 37V 1.5A	.89	.79
LM339N	14	Quad Comparator	.35	.29
LM340K-12	TO-3	+ 12V Regulator 1.5A	1.99	1.75
LM342P-12	TO-220	+ 12V Regulator .25 Amp	.45	.35
LM344H	TO-99	High Volt & Slew Rate Op Amp	4.50	-----
LM348N	14	Quad 741 Op Amp	.39	.35
LM350K	TO-3	Adj + Reg 1.2-33V	3.95	3.59
LM350T	TO-220	1.2-33V Regulator	2.49	2.25
LM358N	8	Dual Op Amp LP	.39	.35
LM376	8	+ Voltage Regulator	1.99	1.75
LM377N	14	IC - Dual Audio Power, 2 watt	2.25	1.99
LM380	14	2 Watt Audio Amplifier	1.29	1.19
LM380N-8	8	Audio Power Amplifier	.89	.75
LM386N	8	Low Voltage Audio Amp	.59	.49
LM389	18	Low Voltage Power Amp	1.45	1.35
LM392N	8	Op Amp & Comparator	.69	.65
LM393N	8	LP Dual Voltage Comparator	.25	.19
TL431CLP	8	Programmable Precision	.39	.35
TL431CP	8	Programmable 2.5-36V Ref	.39	.35
TL496	8	9-volt Power Supply Controller	.79	.65
NE531T	8	High Slew Rate Op Amp	1.49	1.35
GLC555	8	CMOS 555 Timer	.69	.59
NE555	8	Timer	.29	.25
NE556	14	Dual 555 Timer	.45	.39
NE558N	16	Quad 555 Timer	.69	.59
NE565N	14	Phased Locked Loop PLL	1.25	.99
NE566CN	8	Function Generator	1.25	1.15
NE567V	8	Tone Decoder PLL	.45	.35
NE590N	16	High-Current Latched Driver	1.35	1.25
NE592N	14	Differential Video Amp	1.25	-----
MAX690CPA	8	MPU Watchdog/Batt. Reset Gen	2.95	2.75
LM710N	14	Differential Comparator	.49	.39
LM711H	TO-5	Dual Differential Comparator	.75	.59
LM711N	14	Dual Differential Comparator	.65	.55
LM723H	TO-5	Voltage Regulator 2-37V	.99	.89
LM723CN	14	Voltage Regulator 2-37V	.59	.55
LM733CN	14	(NE592) Video Amp	.49	.35
LM741CN	8	Op Amp	.45	.40
LM741CH	TO-5	Op Amp Can Style Case	1.55	1.35
LM747CN	14	Dual LM741 Op Amp	.49	.45
LM748CN	8	Freq Adjusted Op Amp	.55	.49
LM833N	8	Dual Audio Amp Comp	.75	.69
MC1350P	8	Video IF Amp 12V	.75	.69
MC1372N	14	Color Video Modulator	1.75	1.45
MC1414N	14	Linear Integrated Circuit	.99	.75
LM1458	8	Dual Comp Op Amp (LM4558)	.39	.35
MC1488N	14	Quad RS-232 Driver 75188	.35	.29
MC1489N	14	Quad RS-232 Receiver 75189	.35	.29
MC1496P	14	Balanced Mod/DC Mod	1.09	.99
LM1889N	18	RF Video Modulator	2.99	2.75
LM1896N	14	Low Voltage Dual Audio Amp	1.49	1.35
LM2901N	14	Quad Comparator (3302)	.25	.19
LM2902N	14	Quad Comparator	.45	.35
MPQ2907N	14	Quad Transistor Array PNP	1.19	.95
MC3340P	8	Electronic Attenuator	.99	.75
MC3373N	8	CMOS IR Amp/Detector	1.29	.99
LM3900N	14	Quad Op Amp	.69	.59
LM3914N	18	Bargraph Display Driver	1.75	1.60
MC4024P	14	Dual Vltg-Cont Multivibrator	1.25	.99
RC4136N	14	Quad Op Amp	.89	.79
LM4250N	8	Programmable Op Amp	1.09	.99
LM4250H	TO-5	Programmable Op Amp	2.19	1.99
LM4500AN	16	European FM Demodulator	1.85	1.50
DS8833N	16	Linear Device	.99	.75
75154	16	Quad Line Receiver (9617)	.89	.74
75175	16	Quad Diff 422A/423A Line Rec	1.29	.99
75451	8	Dual Peripheral AND Driver	.35	.29
75477	8	Dual NAND Peripheral Driver	.55	.49

CMOS

PART#	#PINS	DESCRIPTION	1-99	100-UP
CD4001	14	Quad 2-Input NOR Gate	$ .25	$ .19
CD4002	14	4-Input NOR Gate	.29	.25
CD4006	14	18-Stage Static Shift Register	.35	.29
CD4007	14	Dual Complementary Pair/Inverter	.25	.19
CD4008	16	4-Bit Full Adder	.65	.49
CD4009	16	Hex/ Buffer/ Converter (Inverting)	.65	.49
CD4010	16	Hex/ Buffer/ Conv. (Non-inverting)	.29	.25
CD4011	14	Quad 2-Input NAND Gate	.24	.18
CD4012	14	Dual Input NAND Gate	.19	.16
CD4013	14	Dual D Flip-Flop W/ Set-Reset	.25	.19
CD4014	16	8-Stage Static Shift Register	.26	.20
CD4015	16	Dual 4-Stage Static Shift Register	.25	.19
CD4016	14	Quad Bilateral Switch	.35	.29
CD4017	16	Decade Counter/ Divider	.35	.29
CD4018	16	Presettable Divide-By-N Counter	.39	.35
CD4019	16	Quad AND/OR Select Gate	.19	.16
CD4020	16	14-Stage Binary/Ripple Counter	.39	.35
CD4021	16	8-Stage Static Shift Register	.28	.23
CD4022	16	Divide-By-8 Counter	.27	.19
CD4023	14	Triple 3-Input NAND Gate	.24	.19
CD4024	14	7-Stage Binary Counter	.29	.25
CD4025	14	Triple 3-Input NOR Gate	.25	.19
CD4027	16	Dual JK Master-Slave Flip-Flop	.25	.19
CD4028	16	BCD-To-Decimal Decoder	.27	.23
CD4029	16	Presettable Up/Dn Counter	.39	.35
CD4030	14	Quad Exclusive-OR Gate	.29	.19
CD4034	24	8-Bit 3-Static Shift Register	.65	.55
CD4035	16	4-Bit Parallel-In/Out Shift Register	.65	.55
CD4040	16	12-Stage Binary/Ripple Counter	.35	.28
CD4041	14	Quad True/ Complement Buffer	.45	.39
CD4042	16	Quad Clocked D Latch	.29	.25
CD4043	16	Quad NOR R-S Latch Tri-State	.39	.35
CD4044	16	Quad 3-State NAND R-S Latch	.49	.45
CD4046	16	Micropower Phase-Locked Loop	.49	.45
CD4047	14	Monostable/Astable Multivibrator	.49	.45
CD4048	16	8-Input Multifunctional Expander	.65	.59
CD4049	16	Hex/ Buffer/ Converter (Inverting)	.25	.19
CD4050	16	Hex/ Buffer/ Conv. (Non-inverting)	.25	.19
CD4051	16	Single 8-Channel DE/Multiplexer	.45	.39
CD4052	16	Differential 4-Channel DE/Multiplexer	.39	.35
CD4053	16	Triple 2-Channel DE/Multiplexer	.39	.35
CD4056	16	BCD to 7 Seg LCD Buffer/Driver	.89	.75
CD4060	16	14-Stage Ripple-Carry Binary	.49	.39
CD4066	14	Quad Bilateral Switch	.29	.25
CD4067	24	16-Channel Analog DE/Multiplexer	1.35	1.25
CD4068	14	8-Input NAND Gate	.25	.19
CD4069	14	Hex Inverter (74CO4)	.25	.17
CD4070	14	Quad Exclusive-OR Gate (74C86)	.25	.19
CD4071	14	Quad 2-Input OR Gate	.26	.24
CD4072	14	Dual 4-Input OR Gate	.30	.27
CD4073	14	Triple 3-Input AND Gate	.26	.23
CD4075	14	Triple 3-Input OR Gate	.32	.29
CD4076	16	Quad D Type Register (74C173)	.55	.49
CD4077	14	Quad Exclusive-NOR Gate	.29	.27
CD4078	14	8-Input NOR Gate	.29	.28
CD4081	14	Quad 2-Input AND Gate	.25	.23
CD4085	14	2-Input AND/OR Inverter Gate	.70	.63
CD4086	14	2-Input AND/OR Inverter Gate	.70	.63
CD4093	14	Quad 2-Input NAND Schmitt Trigger	.35	.33
CD4094	16	8-Stage Shift-And-Store Bus	.75	.65
CD4098	16	COS/MOS Dual Monostable Multivibrator	.85	.75
CD4099	16	8-Bit Addressable Latch	.69	.65
CD4502	16	Strobed Hex Inverter/ Buffer	.84	.79
CD4503	16	Tri-State Hex Buffer (80C97)	.39	.35
CD4504	16	CD4504	.42	.37
CD4507	14	Quad Exclusive OR Gate	1.02	.89
CD4508	24	Dual 4-Bit Latch	1.02	.89
CD4510	16	BCD Up/Dn Counter	.59	.54
CD4511	16	BCD To 7-SEG Latch/Decoder/Driver	.69	.65
CD4512	16	8-Channel Data Selector	.59	.55
CD4514	24	4-Bit Latch/ 4-16 Decoder	1.02	.92
CD4515	24	4-Bit Latch/ 4-16 Decoder	1.19	.99
CD4516	16	Binary Up/Dn Counter	.65	.59
CD4517	16	Dual 64-Stage Static Shift	.79	.65
CD4519	16	Selector/ XOR Gate	.69	.62
CD4520	16	Dual Binary Up Counter	.59	.55
CD4526	16	Divide-By-Counter	1.09	.85
CD4527	16	BCD Rate Multiplier	.92	.85
CD4528	16	Dual Monostable Multivibrator	.69	.60
CD4529	16	Dual 4-Channel Analog Multiplexer	1.02	.92
CD4531	16	12-Bit Parity Tree	.88	.83
CD4532	16	8-Bit Priority Encoder	.98	.89
CD4538	16	Dual Mono Stable Multivibrator	.69	.65
CD4539	16	Dual 4-Channel Multiplexer	.99	.92
CD4541	14	Oscillator/ Programmable Timer	.69	.65
CD4543	16	BCD To 7-Segment Decoder	.89	.75
CD4553	16	3-Digit BCD Counter	3.75	3.49
CD4555	16	Dual Binary 1 Of 4 Dec. Demultiplexer	.59	.55
CD4556	16	Dual Binary 1 Of 4 Decoder Inverter	.49	.45
CD4558	16	BCD To 7 Segment Decoder	1.25	1.15
CD4560	16	NBCD Adder	2.92	2.75
CD4572	16	Hex Gate (MC14572BCP)	1.09	.85
CD4582	16	Look-Ahead Carry Block	2.25	1.85
CD4584	14	Hex Schmitt Trigger	.39	.35
CD4585	16	4-Bit Comparator	.35	.29
CD4702	16	Programmable Bit Rate Generator	9.95	7.95
CD4724	16	8-Bit Addressable Latch	.75	.69

IC CROSS REFERENCE BOOK



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TTL INTEGRATED CIRCUITS

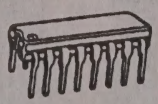
74LS00 SERIES IC'S

PART#	#PINS	DESCRIPTION	1-99	100-UP
74LS00	14	Quad 2-Input NAND Gate	$ .25	$.19
74LS02	14	Quad 2-Input NOR Gate	.25	.19
74LS03	14	Quad 2-Input AND Gate (Open Col)	.19	.12
74LS04	14	Hex Inverter	.25	.19
74LS05	14	Hex Inverter (Open Collector)	.25	.19
74LS08	14	Quad 2-Input AND Gate	.25	.19
74LS10	14	Triple 3-Input NAND Gate	.25	.19
74LS11	14	Triple 3-Input AND Gate	.25	.19
74LS13	14	Dual 4-Input NAND Schmitt Trigger	.29	.23
74LS14	14	Hex Schmitt Trigger Inverter	.25	.19
74LS20	14	Dual 4-Input NAND Gate	.25	.19
74LS21	14	Dual 4-Input AND Gate	.25	.19
74LS27	14	Triple 3-Input NOR Gate	.25	.19
74LS30	14	8-Input NAND Gate	.25	.19
74LS32	14	Quad 2-Input OR Gate	.32	.29
74LS38	14	Quad 2-Input NAND Buffer (Open Col)	.25	.19
74LS42	16	4-10 Line BCD-To-Decimal Decoder	.35	.29
74LS51	14	Dual 2-Input AND/OR Inverter Gate	.19	.12
74LS73	14	Dual JK Flip Flop with clear	.29	.25
74LS74	14	Dual D Type Flip Flop	.21	.16
74LS75	16	Quad Latch	.39	.35
74LS83	16	4-Bit Full Adder	.39	.35
74LS85	16	4-Bit Magnitude Comparator	.29	.25
74LS86	14	Quad 2-Input Exclusive OR Gate	.29	.25
74LS90	14	Decade Counter	.45	.39
74LS93	14	4-Bit Binary Counter	.29	.25
74LS95	14	4-Bit Parallel-Access Shift Register	.35	.29
74LS107	14	Dual JK Master-Slave Flip FLop	.25	.19
74LS109	16	Dual JK Positive Edge Flip Flop	.25	.19
74LS112	16	Dual JK Negative Edge Flip Flop	.25	.19
74LS122	14	Retriggerable Mono Multivibrator	.39	.35
74LS123	16	Dual Mono Multivibrator W/Clear	.29	.25
74LS124	16	Dual Voltage Ctrl Oscillator	.35	.29
74LS125	14	Tri-State Quad Buffer	.35	.29
74LS126	14	Quad Buffer Tri-State	.35	.29
74LS132	14	Quad 2-Input NAND Schmitt Trigger	.29	.25
74LS133	16	13-Input NAND Gate	.45	.39
74LS136	14	Quad XOR Gate	.35	.29
74LS138	16	Expandable 3/8 Decoder	.25	.19
74LS139	16	Expandable Dual 2/4 Decoder	.29	.25
74LS145	16	BCD-To-Decimal Decoder/Driver	.43	.35
74LS148	16	8-To-3 Line Priority Encoder	.79	.69
74LS151	16	8-Input Multiplexer	.29	.25
74LS153	16	Dual 4-Input Multiplexer	.29	.25
74LS154	24	4-16 Decoder	1.29	1.19
74LS155	16	Dual 2/4 Demultiplexer	.25	.19
74LS156	16	Dual 2/4 Demultiplexer (Open Col)	.25	.19
74LS157	16	Quad 2/1 Multiplexer	.29	.25
74LS158	16	Quad 2/1 Multiplexer	.25	.19
74LS160	16	Presettable Decade Counter	.39	.35
74LS161	16	Presettable Binary Counter	.29	.25
74LS163	16	Presettable Binary Counter	.23	.19
74LS164	14	8-Bit Shift Register	.29	.23
74LS165	16	Parallel Load 8-Bit Serial	.45	.39
74LS166	16	8-Bit Shift Register	.35	.29
74LS169	16	Synch. Binary Up/Dn Counter	.49	.45
74LS173	16	Quad D Register Tri-State	.35	.29
74LS174	16	Hex D Flip Flop with Clear	.29	.25
74LS175	16	Quad D Flip Flop	.29	.25
74LS181	24	Arithmetic Logic Unit	.99	.89
74LS191	16	Up/Dn Binary Counter	.35	.29
74LS192	16	4-Bit Up/Dn BCD Counter	.59	.49
74LS193	16	4-Bit Up/Dn Binary Counter	.39	.35
74LS194	16	4-Bit Bi-Directional Univ. Shift Register	.55	.49
74LS221	16	Dual Monostable Multivibrator	.35	.29
74LS240	20	Octal Inverting Bus/Line Driver	.25	.15
74LS241	20	Octal Bus/Line Driver	.35	.29
74LS242	14	Quad Transceiver/Non-inverting	.34	.29
74LS243	14	Tri-State Quad Transceiver	.39	.35
74LS244	20	Octal Driver Non-Inverting Tri-State	.39	.35
74LS245	20	Octal Bus Transceiver Non-Inverting	.39	.35
74LS251	16	Tri-State 8-Channel Multiplexer	.29	.25
74LS257	16	Quad 2-Input Multiplexer Tri-State	.25	.22
74LS258	16	Quad 2/1 Multiplexer	.25	.15
74LS259	16	8-Bit Addressable Latch	.39	.35
74LS260	14	Dual 5-Input NOR Gate	.39	.35
74LS266	14	Quad XNOR Gate	.39	.35
74LS273	20	8-Bit D Type Register	.45	.39
74LS279	16	Quad Set-Reset Latches	.29	.25
74LS280	14	9-Bit Odd/Even Parity Gen/Checker	.15	.08
74LS283	16	4-Bit Full Adder	.39	.35
74LS299	20	8-Bit Universal Shift/Storage Register	.99	.69
74LS322	20	8-Bit Serial/Parallel Register	.75	.65
74LS323	20	8-Bit Universal Shift/Storage Register	.49	.45
74LS365	16	Hex Buffer Tri-State	.19	.12
74LS367	16	Hex Buffer Tri-State	.29	.25
74LS368	16	Hex Buffer Tri-State	.25	.19
74LS373	20	Octal Transparent Latch	.39	.35
74LS374	20	Octal Dual Flip Flop Tri-State	.39	.35
74LS377	20	Octal D Register Common Enable	.39	.35
74LS390	16	Dual 4-Bit Binary Counter	.39	.35
74LS393	14	Dual 4-Bit Binary Counter	.35	.29
74LS540	20	Octal Buffer/Line Driver	.39	.35
74LS541	20	Octal Buffer/Line Driver	.59	.49
74LS590	16	8-Bit with Output Registers	2.95	2.49
74LS612	40	Memory Mapper	1.95	1.49
74LS620	18	IC	.65	.59
74LS629	16	Dual VLTG Controlled Oscillator	.65	.45
74LS640	20	Octal Bus Transceiver-Inverting	.45	.39
74LS645	20	Octal Bus Transceiver-True	.59	.49
74LS646	24	Octal Bus Transceiver/Register	.99	.75
74LS670	16	4x4 Register File Tri-State	.25	.14

7400 SERIES IC'S

PART#	#PINS	DESCRIPTION	1-99	100-UP
7400	14	Quad 2-input NAND Gates	$.35	$.29
7402	14	Quad 2-input NOR Gates	.39	.35
7404	14	Hex Inverters	.39	.35
7406	14	Hex Inverter Buffer/Driver	.39	.35
7408	14	Quad 2-input AND Gates	.39	.35
7410	14	Triple 3-input NAND Gates	.25	.22
7414	14	Hex Inverter Schmitt Triggers	.29	.25
7416	14	Hex Inverter Buffer/Driver	.29	.25
7417	14	Hex Buffer/Driver	.35	.29
7420	14	Dual 4-input NAND Gates	.35	.29
7423	16	Dual 4-input NOR Gate with Strobe	.29	.25
7430	14	8-input NAND Gates	.25	.22
7438	14	Quad 2-input NAND Buffers O/C outputs	.19	.12
7440	14	Dual 4-input NAND Buffers	.25	.15
7445	16	BCD-to-Decimal Decoder/Driver	.89	.79
7473	14	Dual JK Flip-Flop with Clear	.89	.79
7474	14	Dual D Type Flip-Flop with preset & clear	.39	.35
7485	16	4-Bit Magnitude Comparator	.45	.39
7490	14	Decade Counter	.79	.69
7493	14	4-Bit Binary Ripple Counter	.79	.69
7495	14	4-Bit Shift register	.59	.49
74123	16	Dual Retriggerable MS Multivibrator	.79	.69
74125	14	Quad 3-state buffer	.49	.35
74150	24	16-input multiplexer	1.65	1.59
74151	16	8-input multiplexer	.49	.45

L293D



Mfg. - SGS
1.2 amp output 36V supply, 16 pin dip
Push-pull four channel driver with diodes. Monolithic integrated high voltage, high current four channel driver. Accepts standard DTL or TTL logic levels and drive inductive loads (such as relays, solenoids, DC and stepping motors) and switching power transistors. Spec sheet included.

L293D.....$2.95

74HCT SERIES IC'S

PART#	#PINS	DESCRIPTION	1-99	100-UP
74HCT00	14	Quad 2-input NAND Gates	$ .25	$ .19
74HCT02	14	Quad 2-input NOR Gates	.25	.19
74HCT04	14	Hex Inverters	.25	.19
74HCT32	14	Quad 2-input OR Gates	.25	.19
74HCT74	14	Dual D Type Flip-Flop w/preset & clear	.25	.19
74HCT86	14	Quad 2-input XOR Gate	.35	.29
74HCT125	14	Quad Buffer 3-State	.35	.29
74HCT139	16	Dual 2/4 Line decoder/Demultiplex	.29	.15
74HCT151	16	8-input Multiplexer	.49	.45
74HCT157	16	Quad 2-Input Select/Mux Non-Inverting	.49	.45
74HCT240	20	Octal Inverter Buffer 3-State	.19	.15
74HCT244	20	Octal Buffer 3-State	.45	.39
74HCT245	20	Octal Transceiver 3-State	.45	.39
74HCT373	20	Octal Transparent Latch	.49	.39
74HCT597	16	HCT CMOS	.99	.79

74F SERIES IC'S

PART#	#PINS	DESCRIPTION	1-99	100-UP
74F04	14	Hex Inverters	.25	.22
74F08	14	Quad 2-input AND Gates	.19	.15
74F32	14	Quad 2-input OR Gates	.19	.15
74F74	14	Dual D Type Flip-Flop w/Preset & Clear	.25	.19
74F86	14	Quad 2-input XOR Gate	.19	.15
74F157	16	Quad 2-input Select/mux non-inverting	.19	.15
74F175	16	Quad D Flip-Flop	.25	.19
74F244	20	Octal Buffer 3-State	.24	.19
74F373	20	Octal Transparent Latch	.19	.15
74F399	16	Quad 2-port Register	.25	.19

74HC SERIES IC'S

PART#	#PINS	DESCRIPTION	1-99	100-UP
74HC02		Quad 2-input NOR gate	.22	.15
74HC08		Quad 2-input AND Gate	.25	.19
74HC10		Triple 3-input NAND Gate	.25	.19
74HC14	14	Hex Inverter Schmitt Triggers	.39	.36
74HC30	14	8-input NAND Gates	.19	.12
74HC58	14	74HC High Speed CMOS	.19	.15
74HC74	14	Dual D-Type Flip-Flop with preset & clear	.35	.32
74HC152	14	1/8 Data Sel/Multi	.25	.22
74HC153	16	Dual 4-1 Multiplexer	.35	.29
74HC163	16	4-Bit Binary Counter	.35	.29
74HC245	20	Octal Transceiver 3-State	.39	.35
74HC373	20	Octal Transparent Latch	.55	.49
74HC4020		14 Stage Binary Counter	.45	.35
74HC4052		High Speed CMOS	.45	.35
74HC4538	16	Dual Monostable Multivibrator	.59	.49

DARLINGTON ARRAYS

ULN2003A

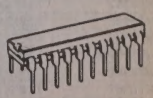
Input: TTL, CMOS
Output: 350 mA
16 pin dip package

ULN2003A.....$ .69

Input: 15V, MOS
Output: 350 mA
16 pin dip package

ULN2004A.....$ .99

Mfg. - NATIONAL
A/D converters
8-bit w/diff. inputs.
20 pin dip package



ADC0820CCN.....$4.95

NTE10	T NPN SI UHF LO Noise Amp	$1.85
NTE11	T NPN SI High Current Amp	1.35
NTE12	T PNP SI High Current Amp	1.49
NTE18	T NPN SI Driver	1.89
NTE23	T NPN SI Ultra HI Freq	1.89
NTE25	T PNP SI SW Gen Purp Amp	1.65
NTE31	T NPN SI AF Driver	2.79
NTE32	T NPN SI Vert/Snd Output	3.39
NTE36	T NPN Pwr Amp, HI SP SW	4.29
NTE37	T PNP SI Pwr Amp HI SP SW	4.49
NTE37MCP	T Matched Compl Pair	9.89
NTE39	T PNP SI HV AF Pwr Amp	3.75
NTE46	T NPN SI Gen Purp Amp	1.75
NTE47	T NPN SI LO Noise Amp	.99
NTE48	T NPN SI Barlinton	1.25
NTE51	T NPN HI Volt HI SP SW	3.85
NTE54	T NPN AF Pwr Amp	3.49
NTE55	T PNP AF Pwr Amp	3.99
NTE58	T NPN SI Audio Output	10.45
NTE59	T PNP SI Audio Output	15.75
NTE60	T NPN Gen Purp Pwr Amp	9.99
NTE66	Mosfet Pwr N CH Fast SW	9.99
NTE67	Mosfet Pwr N CH Fast SW	9.99
NTE68	T PNP SI Gen Purp HI Amp	9.75
NTE69	T NPN SI VHF/UHF OSC	1.29
NTE74C00	IC CMOS Nand Gate	1.24
NTE74LS138	Expandable 3/8 Decoder	2.99
NTE81	T NPN SI Dual	11.99
NTE85	T NPN SI Gen Purp Amp	.94
NTE87	T NPN SI-HI Pwr Audio Amp	8.19
NTE88	T PNP SI HI Pwr Audio Amp	8.49
NTE89	T NPN SI Horiz Output	10.95
NTE90	T NPN SI HV HI Gain Amp	1.29
NTE91	T PNP SI HV HI Gain Amp	1.29
NTE94	T NPN HV Gen Purp Amp	4.69
NTE100	T PNP GE RF/IF Amp	2.99
NTE102	T PNP GE AF Preamp DR PO	3.25
NTE102A	T PNP GE AF Preamp DR PO	1.79
NTE103	T NPN GE AF Preamp DR PO	3.95
NTE103A	T NPN GE AF Preamp DR PO	1.59
NTE104	T PNP GE AF PO	12.89
NTE105	T PNP GE AF PO	15.25
NTE107	T NPN SI RF/IF Amp	1.59
NTE108	T NPN SI RF/IF/VID Amp	1.59
NTE109	D GE Gen Purp 75PRV	.59
NTE110MP	D GE Matched Pair	.79
NTE112	D SI UHF TV, MXR	1.49
NTE116	R SI 600V, 1A	.66
NTE117	SI Gen Purp Metal Case Rectifier	1.12
NTE121	T PNP GE AF PO	14.95
NTE123	T NPN SI AF Preamp, DR	.97
NTE123A	T NPN SI AF/RF Amp	.89
NTE123AP	T NPN SI AF/RF Amp	.89
NTE124	T NPN SI HIV AF PO	2.99
NTE125	R-SI 1000V, 2, 5A	.75
NTE126	T PNP GE RF/IF Amp	4.79
NTE127	T PNP GE DEFL/Amp	29.95
NTE128	SI AF Preamp/ DR	1.95
NTE128P	T NPN SI Gen Purp Amp	1.39
NTE129	T PNP SI AF Output	1.98
NTE130	T NPN SI AF PO	2.99
NTE132	RF Amp MXR VHF	.98
NTE133	FET AF Amp, Switch	.98
NTE134A	Zener Diode 3.6V 1W	.89
NTE135A	Zener Diode 5.1V 1W	.89
NTE136A	Zener Diode 5.6V 1W	.89
NTE139A	Zener Diode 9.1V 1W	.89
NTE140A	Zener Diode 10V 1W	.89
NTE142A	Zener Diode 12.0V 1W	.89
NTE144A	Zener Diode 14V 1W	.89
NTE145A	Zener Diode 15V 1W	.89
NTE150A	Zener Diode 82V 1W	.89
NTE152	T NPN SI AF PO	2.19
NTE153	T PNP SI AF PO	2.59
NTE156	SI Gen Purp Rectifier	.95
NTE156A	SI Gen Purp Rectifier	1.05
NTE157	T NPN SI HIV AF PO	1.99
NTE158	T PNP GE AF PO	1.99
NTE159	T PNP SI AF Preamp, DR	1.59
NTE159M	T PNP SI Low Noise Amp	.79
NTE160	T PNP GE RF/IE Amp	2.75
NTE161	T NPN SI VID IF Amp	2.49
NTE162	T NPN SI VERT DEFL	7.99
NTE165	T NPN SI Horiz Deflection	$8.99
NTE166	SI Bridge Rectifier	1.98
NTE167	SI Bridge Rectifier	2.36
NTE168	Bridge SI 400V 2A	1.99
NTE171	T NPN SI AF/VID Amp	2.49
NTE172A	T NPN AF SW SI DARL Amp	.75
NTE175	T NPN SI AF PO	2.75
NTE176	T PNP GE AF PO	3.69
NTE177	D SI Gen Purp DET 200 PRU	.99
NTE179	T PNP GE-AF Amp	19.25
NTE180	T PNP SI AF Amp	6.95
NTE181	T NPN SI AF Amp	7.25
NTE184	T NPN SI AF PO	1.95
NTE185	T PNP SI AF PO	2.25
NTE186	T NPN SI AF PO	2.25
NTE186A	T NPN SI AF PO/CB DR	2.25
NTE187	T PNP SI AF PO	2.49
NTE187A	T PNP SI AF PO	2.49
NTE188	T NPN HI Vltg Amp Driver	2.99
NTE189	T PNP SI AF DR, PO	2.59
NTE190	T NPN SI AF PO Horiz DR	2.99
NTE192	T NPN SI AF PO	1.95
NTE192A	T NPN SI AF PO	1.75
NTE194	T NPN SI HIV Gen Purp	.95
NTE196	T NPN SI AF PO	2.95
NTE197	T PNP SI AF PO	2.69
NTE198	T NPN SI HIV AF SW	3.19
NTE199	T NPN SI LO Noise	.89
NTE210	T NPN SI AF PO SW	1.99
NTE211	T PNP SI AF PO SW	2.25
NTE213	JFET N-CH VHF Amp/Mix	27.12
NTE218	T PNP SI AF PO	4.99
NTE219	T PNP SI AF PO, SW	5.99
NTE221	Mosfet N CH VHF Amp/Mix	3.95
NTE222	Mosfet N CH VHF Amp/Mix	3.89
NTE229	T NPN SI VHF OSC/MXR	1.85
NTE232	T PNP SI DARL Amp	.99
NTE234	T PNP SI AF Preamp	.95
NTE235	T NPN SI VHF PO	5.99
NTE236	T NPN SI VHF PO	9.99
NTE238	T NPN SI-Horiz DEFL	13.25
NTE240	T PNP SI HV Amp	4.25
NTE243	T NPN Darl V 8A	3.05
NTE244	T PNP Darl 80V HFE 300	3.75
NTE247	T NPN Darl 100V HFE3500	5.05
NTE248	T PNP Darl 100V HFE3500	6.25
NTE249	T NPN Darl 100V HFE3500	7.99
NTE250	T PNP Darl 100V HFE3500	8.25
NTE251	T NPN Darl 100V HFE2400	7.99
NTE252	T PNP Darl 100V HFE2400	8.25
NTE253	T NPN Darl 80V HFE2000	1.99
NTE254	T PNP Darl 80V HFE2000	2.35
NTE261	T NPN Darl 80V HFE1000	1.95
NTE262	T PNP Darl 80V HFE1000	2.49
NTE263	T NPN Darl 80V HFE1000	2.39
NTE264	T PNP Darl 80V HFE1000	2.89
NTE265	T NPN Darl 50V HFE10000	1.29
NTE266	T NPN Darl 50V HFE40000	1.69
NTE268	T NPN Darl 50V HFE1000	1.49
NTE270	T NPN SI Darlington	5.35
NTE271	T PNP Darl 100V HFE1000	5.49
NTE272	T NPN Darl 40V HFE25000	1.59
NTE276	SCR Gate Control Switch	12.99
NTE278	T NPN SI Broadband RF Amp	3.19
NTE280	T NPN SI AF PO PD 100W	6.29
NTE281	T PNP SI AF PO PD 100W	8.05
NTE283	T NPN SI 100W TO-3	9.75
NTE284	T NPN SI AF PO PD 150W	9.95
NTE285	T PNP SI AF PO PD 150W	10.85
NTE287	T NPN SI Hiv Gen Purp Amp	.95
NTE288	T PNP SI Hiv Gen Purp Amp	.95
NTE289	T NPN SI AF Power Amp	1.25
NTE289A	T NPN SI AF PO PD 0.6W	1.29
NTE290	T PNP SI AF Power Amp	1.09
NTE290A	T PNP SI AF PO PD 0.6W	1.35
NTE291	T NPN SI PO & SW PD 40W	2.95
NTE292	T PNP SI PO & SW PD 40W	3.25
NTE293	T NPN SI AF PO PD .75W	1.49
NTE294	T PNP SI AF PO PD .75W	1.59
NTE295	T NPN SI RF PO DR, CB	3.09
NTE297	T NPN SI AF PO PD 75W	1.59
NTE298	T NPN SI AF PO PD .75W	1.49
NTE311	T NPN PD 5W	$2.59
NTE312	JFET N CH VHF Amp/MIX	1.29
NTE314	SCR SI P GATE Pwr Reg/SW	9.75
NTE315	T NPN SI RF DR CB	2.69
NTE316	T NPN SIL LO Noise UHF	3.25
NTE323	T PNP SI AF Pwr Amp	4.05
NTE324	T NPN SI AF Pwr Amp	4.25
NTE326	JFFT P CH Gen Purp AF Amp	1.69
NTE327	T NPN SI Pwr Amp SW	18.99
NTE331	T NPN SI AF PO Reg SW	2.89
NTE332	T PNP SI AF PO Reg SW	2.65
NTE340	T NPN SI RF PO DR 600MW	3.25
NTE341	T NPN SI RF PO 4W	8.97
NTE345	T NPN SI RF PO 30W	27.49
NTE346	T NPN SI RF DR 7 PreDR	2.99
NTE350	T NPN SF RF Pwr Output 15W	19.49
NTE373	T NPN SI AF Driver	1.75
NTE374	T PNP SI-AF Driver	1.95
NTE375	T NPN SI Vert Defl	2.69
NTE376	T NPN SI Pwr Amp	3.39
NTE377	T NPN SI Pwr Driver, PO	2.85
NTE378	T PNP SI Pwr Driver PO	2.99
NTE379	T NPN SI-HV HI-SP, Pwr SW	6.99
NTE382	T NPN SI-AF Driver	1.99
NTE383	T PNP SI-AF Driver	2.09
NTE384	T NPN SI SW Linear APP	6.19
NTE385	T NPN SI HV HI-Speed SW	8.49
NTE386	T NPN SI HV HI-Speed SW	17.99
NTE388	T NPN SI HI Pwr AF	6.99
NTE389	T NPN SI Horiz Output	6.49
NTE390	T NPN SI Pwr Amp	2.99
NTE391	T PNP SI Pwr Amp	3.99
NTE392	T NPN SI Pwr Amp	5.49
NTE393	T PNP SI Pwr Amp	5.99
NTE395	T PNP SI Wide Band Amp	3.39
NTE396	T NPN SI Linear Amp & SW	2.99
NTE397	T PNP SI linear Amp & SW	3.05
NTE398	T PNP SI-VERT Output	2.99
NTE399	T NPN SI-Video Output	2.99
NTE451	JFET N CH UHF/VHF Amp	1.57
NTE452	JFET N CH UHF/VHF Amp	2.29
NTE454	Mosfet Dual Gate N-CH	3.45
NTE455	Mosfet Dual Gate N-CH	2.69
NTE456	JFET N CH Gen Amp/SW	1.69
NTE457	JFET N CH Gen Purp Amp/SW	1.29
NTE458	JFET N CH Gen Purp Amp	1.49
NTE459	JFET N CH AF Amp/Chop/SW	2.16
NTE466	JFET N CH Chopper/SW	1.99
NTE467	JFET N CH Chopper/Fast SW	1.25
NTE468	JFET N CH Chopper/SW	1.39
NTE488	T NPN SI RF DR & PO 4W	11.35
NTE490	Mosfet N CH HI-Speed TO-92	.89
NTE506	R SI HI Cur/Fast Switch	1.75
NTE519	D SI Fast Switching	.99
NTE524V13	103V RMS MOV	2.89
NTE525	D SI Damper 2000 PRV	3.29
NTE542	R SI Micro Oven 15KV	9.95
NTE552	R SI 600 PRV 1A	1.25
NTE553	D Pin UHF/VHF Switch	.88
NTE555	D Pin VHF Band SW	1.75
NTE558	R SI 1500V 1A	2.09
NTE576	R SI Gen Purp Super Fast SW	2.19
NTE580	R SI 600V 3A Fast REC	2.29
NTE581	R SI 400V 8A Fast REC	2.79
NTE583	D-SI Schottky RF SW	1.99
NTE585	D Schottky 40V 1A	1.15
NTE586	D Schottky 40V 3A	1.79
NTE587	D SI 200V 1A Ultra Fast	1.09
NTE588	D ST 200V 3A Ultra Fast	1.59
NTE597	R SI 200V 8A Ultra Fast	1.69
NTE612	Varactor 12pF @ 4V	1.99
NTE613	Varactor 22pf @ 4V	1.99
NTE614	Varactor 33pF @ 4V	1.99
NTE615P	IC Vltg Reg 33V	1.15
NTE618	D AM Radio Tuning Diode	2.25
NTE703	IC RF/IF Amp Epoxy	2.49
NTE712	IC TV Sound IF Amplifier	3.75
NTE725	IC Dual LO Noise OP Amp	7.49
NTE740A	IC AF PO 2W	5.75
NTE743	IC TTL, STR Demod PLL 16 Pin D	10.65
NTE746	IC Linear IF Amplifier	3.39
NTE747	IC TV VID DET	3.69
NTE778A	IC Dual OP Amp, 8 Pin Dip	3.59

NTE797	IC TV Chroma Processor	$5.99
NTE815	IC TV Horiz Processor	2.99
NTE821	IC TV Chroma Demod	4.89
NTE822	IC TV Chroma Demod	9.29
NTE824	IC Stereo Preamp	2.29
NTE832	IC Tone Decoder	3.79
NTE834	IC Quad Comparator	2.39
NTE836	IC TV Horiz Processor	2.92
NTE857M	IC JFET Input OP Amp	3.75
NTE858M	IC Dual JFET Input OP Amp	3.39
NTE859	IC Quad JFET Input OP Amp	3.49
NTE860	IC IF Amp 18 Pin Sip	5.25
NTE864	IC Precision Wave Gen	7.25
NTE876	IC LED Flasher Oscillator	2.35
NTE887M	IC Low Pwr JFET OP Amp	1.35
NTE904	IC LINEAR, Gen Purp Transistor	3.49
NTE909	IC HI Performance OP Amp	1.69
NTE912	IC 3 Isolated Trans	4.79
NTE916	IC Transistor Array	4.49
NTE922M	IC Voltage Comparator	2.20
NTE923	IC Precision VR 10 Lead	1.75
NTE923D	IC Precision VR 14 Lead	1.39
NTE927D	IC Differential Video Amp	2.29
NTE928M	IC Dual Low Pwr OP Amp	3.09
NTE930	IC BI MOS OP Amp	4.99
NTE931	IC POS VR 5V 3A	12.35
NTE932	IC POS VR 5V 5A	14.99
NTE933	IC POS VR 12V 5A	22.49
NTE935	IC POS VR 1.2-32V 5A	14.39
NTE937M	IC JFET Input OP Amp	2.75
NTE938M	IC Precision OP Amp	1.89
NTE941	IC Freq Comp OP Amp	1.89
NTE941D	IC Freq-Comp OP Amp	3.25
NTE941M	IC Freq-Comp OP Amp	.89
NTE943M	IC Dual Comparator 8P Dip	3.59
NTE953	IC POS ADJ VR 5-30V	5.75
NTE955M	IC Timer/Oscillator	1.65
NTE955MC	IC CMOS Timer	1.39
NTE956	IC POS VR 1.2-37V 1.5A	2.99
NTE957	IC NEG VR 1.2-37V 1.5A	3.49
NTE958	IC POS VR 18V 1A	3.99
NTE960	IC POS VR 5V 1A	3.49
NTE964	IC POS VR 8V 1A	3.35
NTE965	IC NEG Vltg REG 8V 1A	3.49
NTE966	IC POS VR 12V 1A	2.99
NTE967	IC NEG VR 12V 1A	4.99
NTE968	IC POS VR 15V 1A	3.59
NTE969	IC NEG VR 15V 1A	4.99
NTE970	IC POS VR 1.2-33V 3A	10.49
NTE972	IC POS VR 24V 1A	3.49
NTE975	IC OP Amp	2.29
NTE977	IC POS VR 5V 100mA	1.59
NTE978	IC Dual Timing	2.78
NTE987	IC Quad OP Amp	2.29
NTE990	IC Dual AF PO 2W CHAN	6.25
NTE992	IC 4 Independent Amps	2.59
NTE997	IC Quad OP Amp	3.49
NTE1080	IC TV VID SIG PROC	7.99
NTE1115	IC AF Pwr Output	8.59
NTE1117	IC AF Pwr Output	6.25
NTE1140	IC AF PO 2W	9.45
NTE1155	IC AF PO 5.8W	10.79
NTE1231	IC TV Sound IF AF PO	5.29
NTE1231A	IC TV Sound IF AF PO	5.29
NTE1278	IC AF PO 5.8W	5.99
NTE1282	MOD AF PO 35W	12.29
NTE1287	IC Linear Audio Pwr Amp 20W	9.99
NTE1288	IC AF PO 10W	6.99
NTE1289	IC TV VET Defl System	10.99
NTE1316	IC AF PWR Output 50W	39.99
NTE1322	MOD AF PO 80W	21.99
NTE1370	IC AF PO 5.8W	6.69
NTE1380	IC AF PO 14W	12.99
NTE1394	IC Linear, Dual Audio Power	7.95
NTE1410	IC Video SIG Processor	11.89
NTE1423	IC AF Pwr Output 5.7W	3.99
NTE1465	IC AF PO	2.38
NTE1471	IC TV Horiz Oscillator	7.25
NTE1485	IC TV Vert Deflection Output	9.99
NTE1635	Speaker PROT & Pwr Amp	3.29
NTE1671	IC Vid/Chroma DEMOD, DR	12.89
NTE1674	IC TV Vert Defl Output	$3.29
NTE1675	IC Linear Dual AF Pwr Amp	3.99
NTE1676	IC TV VERT Deflection CKT	4.49
NTE1716	IC VCR REV Motor Driver	4.89
NTE1720	IC PWM Regulator	4.35
NTE1721	IC PWM Regulator (+) Output, 16	5.65
NTE1729	IC PWM Control CKT	3.99
NTE1743	IC Vltg REG 135V 1A	12.99
NTE1751	IC TV SCR Driver	5.99
NTE1773	IC Linear Vertical	2.99
NTE1776	TV Fixed Voltage Regulator	10.49
NTE1784	IC Horiz Processor 16 Pin Dip	4.99
NTE1797	IC Color TV VERT DEF CKT	4.29
NTE1823	Module 4 OP Vltg Reg For VCR	15.25
NTE1844	IC Motor Speed Reg	1.78
NTE1870	IC TV Switch REG 15 Pin Sip	10.25
NTE1900	IC Vltg REG POS ADJ	1.79
NTE1902	IC Vltg REG 9V Positive	1.69
NTE1905	IC Voltage REG 15V 100mA	1.89
NTE1914	IC Vltg REG POS 12V	6.99
NTE1928	IC POS ADJ Vltg REG 40V	2.25
NTE1932	IC VLTG REG POS 10V 1A	3.99
NTE2013	IC 7 Chan CMOS/TTL DR	3.49
NTE2014	IC 7 Chan CMOS/PMOS DR	3.79
NTE2018	IC 8 Chan CMOS/TTLD 18 Pin	3.25
NTE2019	IC 8 Chan CMOS/PMOS DR	3.25
NTE2053	IC CMOS 8 Bit	11.25
NTE2056	IC 8 Bit Mult D/A Converter	2.49
NTE2128	IC MOS 16K SRAM	12.99
NTE2300	T NPN SI High Voltage	6.95
NTE2301	T NPN SI Horiz Deflection	5.39
NTE2302	T NPN SI Horiz Output	5.99
NTE2305	T NPN SI Pwr Amp TO-218	4.89
NTE2308	T NPN SI High Vltg SW	6.99
NTE2310	T NPN SI High Vltg	7.99
NTE2311	T NPN SI High Vltg SW	14.99
NTE2312	T NPN SI High Vltg Switch	4.85
NTE2315	T NPN SI Darlington	5.49
NTE2318	T NPN SI High Vltg Switch	8.35
NTE2319	T NPN SI High Vltg/SPD SW	11.99
NTE2321	T NPN SI Quad Gen Purp	3.29
NTE2324	T NPN SI Horiz Output	8.75
NTE2325	T NPN SI High Vltg Switch	2.59
NTE2328	T NPN SI Audio Pwr Amp	5.89
NTE2329	T PNP SI Audio Power Amp	5.49
NTE2331	T NPN SI Color TV Horiz Defl	6.89
NTE2334	T NPN SI Darlington	1.59
NTE2337	T NPN SI High Vltg High Speed	5.29
NTE2344	T PNP SI Darl Power Amp	2.09
NTE2349	T NPN SI Darlington Hi Pwr	14.95
NTE2383	Mosfet Pwr P-CH, HI Speed	9.29
NTE2385	Mosfet N Channel HI Speed	6.49
NTE2387	Mosfet N CH POW HI Speed	7.85
NTE2388	Power Mosfet N Channel	6.95
NTE2389	Mosfet Pwr N CH HI Speed SW	4.29
NTE2395	Mosfet Pwr N CH HI Speed SW	5.99
NTE2716	IC NMOS 16K UV EPROM	13.65
NTE3038	NPN Photo/Light Detector	1.35
NTE3040	Opto Isolator/Trans	1.69
NTE3041	Opto Isolator/Trans	1.89
NTE3042	Opto Isolator/Trans	1.57
NTE3044	Opto Isolator/Darl	2.14
NTE3047	Opto Isolator/Triac	2.69
NTE3048	Opto Coupler / Triac	3.75
NTE3052	LED Display COM Anode Red	2.69
NTE3061	LED Display COM Anode Red	2.69
NTE3083	Opto Isolator/Trans	2.29
NTE3084	Opto Isolator/Trans	2.29
NTE3091	Opto Isolator/SCR Output	3.95
NTE3097	Opto Coupler / Triac	5.25
NTE3098	Opto Isolator/Trans O/P	2.29
NTE4001B	IC CMOS Quad 2-Input NOR Gate	.75
NTE4011B	IC CMOS Quad 2-Input NAND	.99
NTE4013B	IC CMOS Dual D Flip-Flop	1.19
NTE4017B	IC CMOS Decode Counter W/10	1.99
NTE4020B	IC CMOS Binary Counter/Divid	1.99
NTE4040B	IC CMOS Binary/Ripp	1.99
NTE4051B	IC CMOS Multiplexer	2.25
NTE4066B	CMOS Quad Bi-Lateral SW	1.35
NTE4069	IC CMOS HEX Inverter	.79
NTE4071B	IC CMOS OR Gate	.89
NTE4081B	IC CMOS Quad 2 Input AND Gate	.69
NTE4093B	IC CMOS Quad-2 Input Trigger	.99
NTE4511B	IC CMOS, BCD-to-7-SEG	$1.99
NTE4541B	IC CMOS OSC/Timer	.99
NTE4584B	IC CMOS Magnitude Comparator	1.35
NTE4902	Trans Supp 5.8V	2.49
NTE4926	Trans Supp 15.3V	2.25
NTE4989	Trans Supp BI DIR 190V	3.99
NTE5000A	Zener Diode 2.4V 1/2W	.69
NTE5004A	Zener Diode 3V 1/2W	.69
NTE5013A	Zener Diode 6.2V 1/2W	.69
NTE5014A	Zener Diode 6.8V 1/2W	.69
NTE5021A	Zener Diode 12V 1/2W	.69
NTE5065A	Zener Diode 3V 1W	.89
NTE5077A	Zener Diode 18V 1W	.89
NTE5084A	Zener Diode 30V 1W	.89
NTE5085A	Zener Diode 36V 1W	.89
NTE5087A	Zener Diode 43V 1W	.89
NTE5088A	Zener Diode 47V 1W	.89
NTE5093A	Zener Diode 75V 1W	.89
NTE5096A	Zener Diode 100V 1W	.89
NTE5100A	Zener Diode 150V 1 W	.89
NTE5105A	Zener Diode 200V 1W	.89
NTE5116A	Zener Diode 5.1V 5W	1.49
NTE5119A	Zener Diode 6.2V 5W	1.49
NTE5125A	Zener Diode 10V 5W	1.49
NTE5127A	Zener Diode 12V 5W	1.49
NTE5130A	Zener Diode 15V 5W	1.49
NTE5133A	Zener Diode 18V 5W	1.49
NTE5135A	Zener Diode 20V .5W	1.49
NTE5150A	Zener Diode 3.3V 5W	1.49
NTE5151A	Zener Diode 68V 5W	1.49
NTE5161A	Zener Diode 150V 5W	1.49
NTE5166A	Zener Diode 200V 5W	1.49
NTE5251A	Zener Diode 9.1V 50W DO-5	11.79
NTE5304	R-SI Bridge 400PRV 1.5A	1.49
NTE5305	SI Bridge Rectifier	1.75
NTE5312	R-SI Bridge 100PRV, 8A	2.99
NTE5313	SI Bridge Rectifier	2.99
NTE5314	SI Bridge Rectifier	3.25
NTE5315	R-SI Bridge 600V 8A	4.75
NTE5320	R-SI Bridge 1000V 4A	3.99
NTE5322	R-SI Bridge 200V 25A	5.49
NTE5324	SI Bridge Rectifier	6.25
NTE5326	SI Bridge Rectifier	6.49
NTE5351	SCR 600V 5A High Speed	8.99
NTE5400	SCR 30 VRM .8A	.79
NTE5401	SCR 60 VRM .8A	.84
NTE5402	SCR 100 VRM, .8A	.85
NTE5404	SCR 200 VRM, .8A	.85
NTE5405	SCR 400 VRM .8A	2.19
NTE5409	SCR 400 VRM 3A	4.06
NTE5411	SCR 30 VRM 4A	1.09
NTE5418	SCR 400 VRM 10A	2.59
NTE5419	SCR 600 VRM 10A	2.99
NTE5424	SCR 400 4.7A High Speed	5.98
NTE5437	SCR 400 VRM 8A	1.99
NTE5452	SCR 30 VRM 4A	.96
NTE5455	SCR 200 VRM 4A	1.34
NTE5456	SCR 300 VRM 4A	1.39
NTE5457	SCR 400 VRM 4A	1.45
NTE5460	SCR 800 VRM 25A TO220	9.49
NTE5461	SCR 50 VRM 10A	2.05
NTE5462	SCR 100 VRM 10A	2.19
NTE5463	SCR 200 VRM 10A	2.59
NTE5465	SCR 400 VRM 10A TO220	2.59
NTE5466	SCR 600 VRM 10A	4.39
NTE5468	SCR 800 VRM 10A TO220	4.65
NTE5512	SCR 400 VRM 5A	5.59
NTE5517	SCR 200 VRM 35A 1/2" Press Fit	6.99
NTE5522	SCR 100VRM 25A	6.75
NTE5527	SCR 400 VRM 25A	7.99
NTE5529	SCR 600 VRM 25A TO48	10.99
NTE5543	SCR 200 VRM 35A TO48	9.79
NTE5545	SCR 400 VRM 35A	9.95
NTE5547	SCR 600 VRM 35A	14.99
NTE5550	SCR 25A 50V TO220	3.59
NTE5552	SCR 25A 200V TO220	3.99
NTE5554	SCR 25A 400V TO220	5.75
NTE5556	SCR 25A 600V TO220	7.59
NTE5558	SCR 25A 800V TO220	11.59
NTE5569	SCR 80A 1200V TO65	44.95
NTE5603	Triac 200 VRM 4A	1.75
NTE5605	Triac 400 VRM 4A	2.75
NTE5608	Triac 400 VRM, IA, Gate	2.35

NTE5609	Triac 600 VRM 8A Gate	2.99
NTE5629	Triac 400 VRM 4A	1.89
NTE5633	Triac 200 VRM 10A	2.25
NTE5635	Triac 400 VRM 10A	3.39
NTE5637	Triac 600 VRM 10A	3.89
NTE5638	Triac 400 VRM 8A ISOL TAB	2.79
NTE5645	Triac 600 VRM 10A I TAB	3.89
NTE5655	Traic 200 VRM .8A	1.25
NTE5656	Triac 400 VRM .8A TO92	1.83
NTE5671	Triac 800V 16A ISOL	5.49
NTE5673	Triac 200 VRM 15A	8.69
NTE5679	Traic 600 VRM 40A	14.99
NTE5695	Triac 400 VRM 40A	10.49
NTE5697	Triac 600 VRM 40A	11.89
NTE5801	R 100 PRV 3A, Axial Lead	.69
NTE5804	R 400 PRV 3A Axial Lead	.99
NTE5809	R 1000 PRV 3A Axial Lead	1.49
NTE5814	R 400 PRV 6A	1.69
NTE5817	R 1000 PRV 6A	3.65
NTE5882	R 600 PRV 12A Cath Case	4.29
NTE5883	R 600 PRV 12A Anode Case	4.29
NTE5912	R 50 PRV 20A Cath Case	4.29
NTE5921	R 400 PRV 20A Anode Case	4.49
NTE5924	R 600 PRV 20A Cath Case	5.99
NTE5925	R 600 PRV 20A Anode Case	5.99
NTE5962	R 400 PRV 25A Cath Case	3.49
NTE5963	R 400 PRV 25A Anode Case	3.49
NTE5986	R 200 PRV 40A Cath Case	4.25
NTE5994	R 600 PRV 40A Cath Case	6.99
NTE5995	R 600 PRV 40A Anode Case	6.99
NTE6002	R 1000 PRV .40A Cath Case	11.99
NTE6087	R Dual Schottky 45V 30A	5.79
NTE6090	R Dual Schottky 45V 30A	6.25
NTE6240	R Dual ST 200V 16A	3.99
NTE6359	R 1000 PRV 300A Anode Case	75.50
NTE6401	T Unijunction SI	5.89
NTE6402	T PROG Unijunction SI	1.49
NTE6403	Bilateral Switch SI 1A	6.99
NTE6404	Unilateral Switch SI 1A	9.35
NTE6407	D Diac 28V 4V 2A	1.35
NTE6408	D Diac 32V +- 4V 2A	.99
NTE6409	T Unijunction SI	6.39
NTE6410	T Unijunction ST	4.25
NTE7000	IC 5W Audio Amp	2.99
NTE7002	IC Switchmode Contr 9 Pin	6.49
NTE7403	IC TTL Quad 2-Input Pos-Nand	.69
NTE7406	IC TTL HEX Invert	1.49
NTE7425	IC TTL Dual 4 Input Pos-NOR	.95
NTE7432	IC TTL Quad 2 Input Pos-OR	1.19
NTE7437	IC TTL Quad 2 Input Pos-Nand	.99
NTE7441	IC TTL Decoder Driver	3.89
NTE7442	IC TTL BCD to Decimal Decoder	1.99
NTE7447	IC TTL BCD Decoder Driver	2.25
NTE7472	IC TTL J-K Master Slave Flip Flop	1.99
NTE7474	IC TTL Dual D Flip Flop	.89
NTE7475	IC TTL 4 Bit Bistable Latch	2.45
NTE7476	IC TTL Dual JK Flip Flop	1.79
NTE7489	IC TTL Read/Write Memory 16P	10.99
NTE7490	IC TTL Decade Counter	1.49
NTE7492	IC TTL Counter	1.39
NTE7493A	IC TTL 4 Bit Binary Counter	1.59
NTE8255	IC Program Periph Interface	11.75
NTE8374	IC Digital/Decoder/DR 16 PIN D	5.95
NTE9602	Dual Retrig Mono Multivibrator	3.49
NTE15021	IC Linear, TV Fixed Vltg Reg	7.55
NTE15034	Module AF Pwr Output 100W/C	36.99
NTE16004	T NPN SI HI Current Amp	1.89
NTE16005	T NPN SI HI Current Amp	1.86
NTE16006	T NPN SI AF Output Amp	.69
NTE40106B	IC CMOS HEX Schmitt Trigger	1.29
NTE40174B	IC CMOS Hex D Type Flip Flop	3.34
NTE56004	Triac 200 VRM 15A	3.69
NTE56006	Triac 400 VRM 15A	4.79
NTE56008	Triac 600 VRM 15A	5.49
NTE56014	Triac 400 VRM 25A	12.25
NTE56017	Triac 600 VRM 25A T0220	5.99
NTE56022	Triac 200 VRM 40A	12.99
NTE56024	Triac 400 VRM 40A	13.79
NTE74121	IC TTL Monostable Multivibrator	1.32
NTE74191	IC TTL Binary Sunch Cnt 16pin	3.99
NTE74192	IC TTL BCD Counter	3.87
NTE74193	IC TTL Binary Counter	3.87

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3.5" (1.44M) 2 disk set
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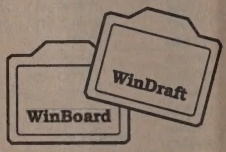
WINBOARD AND WINDRAFT FOR WINDOWS



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WD350.....WinDraft 350 pin version **$94.95**
WB01.....WinBoard 200 pin version.....**$27.95**
WB350.....WinBoard 350 pin version.....**$94.95**

SILICON CONTROLLED RECTIFIER (SCR)

Part# NTE	Description and Application	Case Style	VDRM Volts	IT RMS Amps	VGT Max. Volts	IGT Max. Volts	Price
NTE276	SCR, Gate Controlled Switch	Japanese TO66	1250	5	1.5	120	$12.99
NTE5400	Sensitive Gate	TO92	30	.8	.8	200µA	.69
NTE5401	Sensitive Gate	TO92	60	.8	.8	200µA	.89
NTE5402	Sensitive Gate	TO92	100	.8	.8	200µA	.99
NTE5404	Sensitive Gate	TO92	200	.8	.8	200µA	1.19
NTE5455	Sensitive Gate	TO202	200	4	.8	200µA	1.34
NTE5457	Sensitive Gate	TO202	400	4	.8	200µA	1.45
NTE5460	SCR	TO220	800	25	1.5	40 mA	9.49
NTE5461	SCR	TO220	50	10	1.5	15 mA	2.05
NTE5463	SCR	TO220	200	10	1.5	15 mA	2.59
NTE5465	SCR	TO220	400	10	1.5	15 mA	2.59
NTE5466	SCR	TO220	600	10	1.5	15 mA	4.39
NTE5468	SCR	TO220	800	10	1.5	15 mA	4.65
NTE5529	SCR	TO-48	600	25	3	40 mA	10.99
NTE5545	SCR	TO-48	400	35	2	30 mA	9.95
NTE5547	SCR	TO-48	600	35	2	30 mA	14.99
NTE5552	SCR	TO-220	200	25	1.5	30 mA	3.99
NTE5556	SCR	TO-220	600	25	1.5	30 mA	7.59
NTE5558	SCR	TO-220	800	25	1.5	30 mA	11.59
NTE5569	SCR	TO-65	1200	80	3	150 mA	44.95

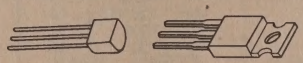
GENERAL PURPOSE DIODES AND RECTIFIERS

Part# NTE	Material	Description and Application	Case Style	Max. Peak Reverse Voltage PRV	Max. Average Forward Current Amps IF	Price
NTE109	Germ	Gen Purp, Fast Switch	D07	100	.2	$ .59
NTE112	Si	TV UHF Mixer	D07	5	.025	1.49
NTE177	Si	Fast Sw, Det, etc.	D035	200	.160	.99
NTE519	Si	Fast Sw Diode	D035	75	.2	.99
NTE525	Si	High Voltage, Fast Recovery Sw	D041	2000	1	3.29
NTE116	Si	General Purpose Rectifier	D041	600	1	.66
NTE117	Si	General Purpose Metal Case Rectifier	D026	600	1	1.12
NTE125	Si	General Purpose Rectifier	D041	1000	2.5	.75
NTE156	Si	General Purpose Rectifier	D015	1000	3	.95
NTE156A	Si	General Purpose Rectifier	D027A	1000	3.5	1.05
NTE166	Si	Bridge Rectifier	C207	100	2	1.98
NTE167	Si	Bridge Rectifier	C207	200	2	2.36
NTE168	Si	Bridge Rectifier	C207	400	2	1.99
NTE506	Si	Sw, Fast Recovery, Bst Damper, Blanking	D041	1400	2	1.75
NTE552	Si	Gen Purp Rect, Fast Rec, Fast Sw	D041	600	1	1.25
NTE558	Si	Gen Purp Rect, Fast Rec, Fast Sw, HV	D041	1500	1	2.09
NTE580	Si	Fast Recovery, Gen Purpose Rectifier	-	600	3	2.29
NTE5304	Si	Bridge Rectifier	C207	400	1.5	1.49
NTE5305	Si	Bridge Rectifier	C207	600	1.5	1.75
NTE5313	Si	Bridge Rectifier	-	200	8	2.99
NTE5314	Si	Bridge Rectifier	-	400	8	3.25
NTE5315	Si	Bridge Rectifier	-	600	8	4.75
NTE5322	Si	Bridge Rectifier	-	200	25	5.49
NTE5324	Si	Bridge Rectifier	-	400	25	6.25
NTE5326	Si	Bridge Rectifier	-	600	25	6.49
NTE5332	Si	Bridge Rectifier	-	600	1	1.49
NTE5994	-	Industrial Rectifier	D05	600	40	6.99

SILICON UNIJUNCTION TRANSISTOR (UJT)

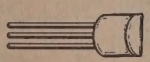
Part# NTE	Case Style	Maximum RMS Emitter Current IE mA	Intrinsic Stand Off Ratio Min. - Max.	Interbase Resistance RBB0 (kΩ) Min. - Max.	Maximum Interbase Voltage VBB Volts	Price
NTE6401	TO18	50	.56-.75	4.7-9.1	35	$5.89
NTE6409	TO18	50	.68-.82	4.7-9.1	35	6.39
NTE6410	TO92	50	.7 - .85	4 - 9.1	35	4.25

FIELD EFFECT TRANSISTORS



Part# NTE	Polarity and Material	Description and Application	Case Style	Breakdown Voltage Gate To Source Min. BVGSS	Cutoff Voltage Gate To Source Max. (off) VGS	Drain Current Zero-Gate Max. (off) IDSS	Cap. Input Max. pf CISS	Price
NTE133	JFET N-CH	Gen Purp AF Amp/SW	TO106	25	6	.5 - 15	6	$ .98
NTE222	Dual Gate MOSFET N-CH	VHF Amp/Mix, NF 6 dB Max at 200 MHz Gate Protected	TO72	20	4	5 - 35	6typ	3.89
NTE213	JFET N-CH	VHF Amp/Mix, NF 4 dB Max at 400 MHz	TO92	30	6	6 - 15	4.5	27.12
NTE326	JFET P-CH	Gen Purp AF Amp, NF 2.5 dB Max at 100 Hz	TO92	60	7.5	2 - 9	7	1.69
NTE454	Dual Gate MOSFET N-CH	UHF/VHF Preamp, NF 4.5 dB at 200 MHz Gate Protected	TO72	25 (BVDSX)	5	6 - 30	3.3typ	2.49
NTE457	JFET N-CH	Gen Purp Amp/Sw	TO92	25	6	1 - 5	7	1.29
NTE459	JFET N-CH	AF Amp/Chopper/Sw	TO72	50	6	2 - 10	6	2.16

NTE123AP



NPN transistor
SI AF/RF amp
TO-92 case

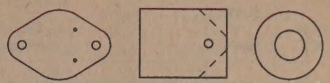
NTE123AP.....$ .89

TO-3 INSULATING BERYLLIUM OXIDE WAFERS

Mfg. - EG&G WAKEFIELD
Mfg.# - 177-3-62
For TO-3 case, .062" thick. 99.5% pure beryllium oxide. Has thermal conductivity comparable to aluminum. Thermal resistance: case-to-sink (°C/W). Dry mount is 0.4 to 1.0. 700 volts/mil breakdown voltage.

80-257.....10/$19.95

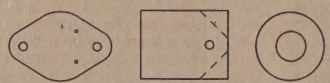
THERMO-PADS



These thermally conductive insulators offer low heat transfer resistance while still providing high electrical isolation between the parts of the assembly.

Part#	Case	Pk of 5
TP001	TO-3	$1.39
TP002	TO-66	1.19
TP003	DO-4	.79
TP004	TO-126	.69
TP005	TIP-36	1.05
TP006	TO-220	.99
TP007	DO-15	1.05
TP008	TO3-P	1.35
TP009	TO36	1.35
TP0010	T03PML	1.89

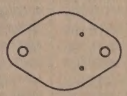
INSULATOR KITS



Each kit includes mica insulator and nylon bushings.

Part#	Description	Price
NTE413	Insulator kit for TO-3	2/1.65
NTE414	Insulator kit for TO-36 Includes: lock washer, solder lug, nut and plastic insulating tube.	2/1.65
NTE415	Insulator kit for TO-66	2/1.59
NTE422	Insulator kit for TO-220 (plastic TO-66)	2/1.62
NTE438	Insulator kit for DO-4, TO-64 stud Includes: flat washer, solder lug and nut.	.59
NTE439	Insulator kit for DO-5, TO-48 stud Includes: flat washer, lock washer, solder lug and nut.	.59

TO3 THERMO PAD



These thermally conductive insulators offer low heat transfer resistance while still providing high electrical isolation between the parts of the assembly.

80-261.....$ .10

TO-3 TRANSISTOR SOCKET

Mfg. - AUGAT
Mfg.# - 8080-1G3
TO-3 power transistor socket with 1 solder lug. Beryllium copper contacts with electro-tin plating and black phenolic insulator.

21-350.....$ .65

BI-POLAR TRANSISTORS

Part# NTE	Polarity and Material	Description and Application	Case Style	Maximum Collector Current Amps	Maximum Breakdown Voltage			Typical Forward Current Gain	Maximum Collector Power Dissipation	Typical Freq. In MHz	Price
					Collector To Base	Collector To Emitter	Emitter To Base				
				Ic	BVCBO	BVCEO	BVEBO	hFE	PD Watts	fT	
NTE36	NPN-Si	AF Pwr Amp, High Current Switching (Compl to NTE37)	TO3P	12	160	140	6	100	100	15	$4.29
NTE37	PNP-Si	AF Pwr Amp, High Current Switching (Compl to NTE36)	TO3P	12	160	140	6	100	100	15	4.95
NTE39	PNP-Si	Line Operated Series Pass and Swiching Reg. (Compl to NTE157)	TO126	.5	300	300	3	92	20	-	3.80
NTE46	NPN-Si	Darlington, Gen Purp Amp, Preamp, Driver	TO92	.5	100	100	12	10,000 Min	.625	200	1.96
NTE51	NPN-Si	High Voltage/Speed Switching Switchmode Applications tf = .4µS Typ	TO220	4	700	400	9	30	75	4 Min	3.97
NTE53	NPN-Si	High Voltage/Speed Switching Switchmode Applications tf = .7µS Typ	TO3	15	850	400	9	25	175	6 Min	11.53
NTE54	NPN-Si	High Freq. Driver for Audio Amplifiers (Compl to NTE55)	TO220	8	150	150	5	100	50	30 Min	3.91
NTE55	PNP-Si	High Freq. Driver for Audio Amplifiers (Compl to NTE54)	TO220	8	150	150	5	120	50	30 Min	4.80
NTE85	NPN-Si	Gen Purp Amp, Hi-Fi Drivers	TO92	.4	70	70 (CES)	4	120 Min	.625	200 Min	.94
NTE89	NPN-Si	Color TV Horizontal Output with Internal Damper Diode tf=1µS Max	TO3	7	1500	600	6	8	50	-	10.95
NTE90	NPN-Si	Gen Purp High Gain Amp (Compl to NTE91)	Giant TO92	.05	120	120	5	400 Min	.75	350	1.29
NTE91	PNP-Si	Gen Purp High Gain Amp (Compl to NTE90)	Giant TO92	.05	120	120	5	400 Min	.75	150	1.29
NTE94	NPN-Si	High Voltage Inverter, Converter, Regulator and Switching Circuits	TO3	5	300	300	5	40	100	2.5 Min	4.69
NTE98	NPN-Si	HV Darlington Pwr Amp, Fast Sw	TO3	20	700	500	8	40 Min	175	-	19.35
NTE100	PNP-Ge	Oscillator, Mixer for AM Radio, Medium Speed Switch (Compl to NTE101)	TO5	.3	25	20 (CER)	12	40 at 455 KHz	.15	5	2.99
NTE101	NPN-Ge	Oscillator, Mixer for AM Radio, Medium Speed Switch (Compl to NTE100)	TO5	.3	25	20 (CER)	20	40 at 455 KHz	.15	5	3.76
NTE102	PNP-Ge	Driver, Power Output, Switch (Compl to NTE103)	TO5	.3	30	16 (CER)	25	100	.15	-	3.25
NTE102A	PNP-Ge	Medium Power Amplifier (Compl to NTE103A)	TO1	1	32	32 (CES)	10	120	.65	-	1.79
NTE103	NPN-Ge	Power Output Driver, Switch (Compl to NTE102)	TO5	.3	30	16 (CER)	25	115	.15	-	3.95
NTE103A	NPN-Ge	Medium Power Amplifier (Compl to NTE102A)	TO1	1	32	32 (CES)	10	110	.65	-	1.59
NTE107	NPN-Si	UHF Oscillator for Tuner, High Frequency	TO92	.05	30	12	3	75	.2	1000	1.59
NTE108	NPN-Si	RF-IF Amp and Osc	TO106,TO92	.05	30	15	2	20 Min	.625	800	1.59
NTE123A	NPN-Si	Amp, Audio to VHF Freq., Switch	TO18	.8	75	40	6	200	.4	300 Min	.89
NTE123AP	NPN-Si	Amp, Audio to VHF Freq., Driver (Compl to NTE159)	TO92	.6	75	40	6	200	.625	300 Min	.89
NTE124	NPN-Si	High Voltage Power Output Line Operated Equipment	TO66	.15	300	300	5	100	20	10	2.99
NTE126	PNP-Ge	RF-IF Amp, TV, Radio, High Speed Switch	TO18	.2	25	18 (CES)	1	60	.2	250	4.79
NTE127	PNP-Ge	Amp, Power Output, Horizontal and Vertical Deflection	TO3	10	320	320 (CES)	2	15	56	1	29.95
NTE128	NPN-Si	Audio Output, Video, Driver (Compl to NTE129)	TO39	1	120	80	7	90 Min	1	100	1.95
NTE129	PNP-Si	Audio Output, Video, Driver (Compl to NTE128)	TO39	1	90	80	7	90 Min	1	150	1.98
NTE130	NPN-Si	Audio Power Amp, Medium Speed Switch (Compl to NTE219)	TO3	15	100	60	7	45	115	3	2.99
NTE152	NPN-Si	Audio Power Amp, Medium Speed Switch (Compl to NTE153)	TO220	7	60	60	5	60	50	10	2.19
NTE153	PNP-Si	Audio Power Amp (Compl to NTE152)	TO220	7	60	60	5	60	50	10	2.59
NTE154	NPN-Si	High Voltage Video Output Ccb = 2.5 pf @ 2V	TO39	.2	300	300	7	100	1	80	3.39
NTE157	NPN-Si	Audio Power Amp, High Voltage Converter (Compl to NTE39)	TO126	.5	325	300	6	90	20	10 Min	1.99
NTE158	PNP-Ge	Audio Power Amp	TO1	1	32	32	10	90	1.4	1.5	1.99
NTE159	PNP-Si	Low Noise Audio Amp, Switch NF = 3dB @ 1KHz (Compl to NTE123AP)	TO92	1	80	80	5	180	.625	200	1.59
NTE160	PNP-Ge	RF-IF Amp, FM Mixer/Osc	TO72	.01	30	20 (CES)	.3	50	.1	550	2.75
NTE161	NPN-Si	VHF-UHF Amp, Mixer/Osc	TO72	.05	45	45 (CES)	3	60	.2	800	2.49
NTE162	NPN-Si	TV Vertical Deflection	TO3	10 Peak	500	300	5	20 Min	100	-	7.99
NTE165	NPN-Si	Color TV Horizontal Output	TO3	6	1500	1400 (CES)	5	8 Min	50	3	8.99
NTE171	NPN-Si	Audio-Video Amp, Reg	TO202	.1	300	300	5	30 Min	6.25	75	2.49
NTE172A	NPN-Si	Darlington Pre-Amp, Medium-Speed Switch	TO98/TO92	.3	40	40	12	7000 Min	.4	60 Min	.79
NTE175	NPN-Si	Linear & Audio Amp	TO66	3	500	300 (CER)	6	60	40	15	2.75
NTE179	PNP-Ge	Audio Power Amp High Current Switch	TO3	25	90	90 (CEX)	2	65 Min	106	.5 Min	19.75
NTE180	PNP-Si	High Power Audio Amp (Compl to NTE181)	TO3	30	100	100 (CER)	4	25 Min	200	2 Min	6.95
NTE181	NPN-Si	High Power Audio Amp (Compl to NTE180)	TO3	30	100	100 (CER)	4	25 Min	200	2 Min	7.25
NTE184	NPN-Si	Audio Power Amplifier & Switching (Compl to NTE185)	TO126	4	80	80	5	25 Min	40	2 Min	1.95
NTE185	PNP-Si	Audio Power Amplifier & Switching (Compl to NTE184)	TO126	4	80	80	5	25 Min	40	2 Min	2.25
NTE186	NPN-Si	General Purpose Output and Driver Stages of Audio Amps (Compl to NTE187)	TO202	3/5	70	60	5	100 Min	12.5	50	2.25
NTE186A	NPN-Si	Medium Power Audio Amplifier	TO202M	3	40	50	5	120	10	150	2.25
NTE187	PNP-Si	General Purpose Output and Driver Stages of Audio Amps (Compl to NTE186)	TO202	3	70	60	5	100 Min	12.5	50	2.49
NTE188	NPN-Si	High Voltage Amplifier & Driver (Compl to NTE189)	TO202N	2	80	80	4	60 Min	10	150	2.99
NTE189	PNP-Si	High Voltage Amplifier & Driver (Compl to NTE188)	TO202N	2	80	80	4	60 Min	10	100	2.59
NTE192	NPN-Si	Audio Power Output (Compl to NTE193)	TO92HS	1	70	70 (CES)	5	150	1*, .7	120 Min	1.95
NTE193	PNP-Si	Audio Power Output (Compl to NTE192)	TO92HS	1	70	70 (CES)	5	150	1*, .7	120 Min	2.05
NTE194	NPN-Si	Gen Purp HV Amp, Hi-Speed Sw	TO92	.6	180	160	6	100	.31	100 Min	.95
NTE196	NPN-Si	Audio Power Output & Medium Power Switching (Compl to NTE197)	TO220	7	90	80 (CER)	5	20 Min	50*, 1.8	4	2.95
NTE197	PNP-Si	Audio Power Output & Medium Power Switching (Compl to NTE196)	TO220	7	90	80 (CER)	5	20 Min	50*, 1.8	4	2.69
NTE198	NPN-Si	High Voltage Audio Output	TO220	1	500	500 (CES)	5	80	40*, 2	10 Min	3.19
NTE199	NPN-Si	Lo-Noise, Hi-Gain Pre-Amp (Compl to NTE234)	TO98/TO92	.1	70	50	5	400 Min	.36	90 Min	.89
NTE210	NPN-Si	General Purpose Output & Driver (Compl to NTE211)	TO202	1	90	75	5	120 Min	6.25*, 1.33	200	1.99
NTE211	PNP-Si	General Purpose Output & Driver (Compl to NTE210)	TO202	1	90	75	5	120 Min	6.25*, 1.33	150 Min	2.25
NTE219	PNP-Si	General Purpose Amplifier & Switch (Compl to NTE130)	TO3	15	100	70 (CER)	7	20 Min	115	2.5 Min	5.99
NTE234	PNP-Si	Lo-Noise, Hi-Gain AF Pre-Amp (Compl to NTE199)	TO92	.05	60	50	5	400 Min	.2	80 Min	.95
NTE235	NPN-Si	Final RF Pwr Output (Po 5W, 50 MHz)	TO220	3 Pulse	65	65 (CER)	4	80	12	300	5.99
NTE236	NPN-Si	Final RF Pwr Output, CB (Po 13W, 50 MHz)	TO220	8 Pulse	70	70 (CER)	4	20 Min	25	150	9.99
NTE238	NPN-Si	Color TV Horiz Output	TO3	8	1500	1500 (CEX)	5	8	100	-	13.25
NTE249	NPN-Si	Darlington Pwr Amp (Compl to NTE250)	TO3	16	100	100	5	4,000	150	-	7.99
NTE250	PNP-Si	Darlington Pwr Amp (Compl to NTE249)	TO3	16	100	100	5	4,000	150	-	8.25
NTE253	NPN-Si	Darlington Pwr Amp (Compl to NTE254)	TO126	4	80	80	5	2,500	40	-	1.99
NTE254	PNP-Si	Darlington Pwr Amp (Compl to NTE253)	TO126	4	80	80	5	2,500	40	-	2.35
NTE261	NPN-Si	Darlington Pwr Amp (Compl to NTE262)	TO220	8	100	100	5	1,000 Min	65	-	1.95
NTE262	PNP-Si	Darlington Pwr Amp (Compl to NTE261)	TO220	8	100	100	5	1,000 Min	65	-	2.49
NTE263	NPN-Si	Darlington Pwr Amp (Compl to NTE264)	TO220	10	100	100	5	1,000 Min	65	-	2.39
NTE264	PNP-Si	Darlington Pwr Amp (Compl to NTE263)	TO220	10	100	100	5	1,000 Min	65	-	2.89

BI-POLAR TRANSISTORS *(Continued)*

Part# NTE	Polarity and Material	Description and Application	Case Style	Maximum Collector Current Amps	Maximum Breakdown Voltage			Typical Forward Current Gain	Maximum Collector Power Dissipation	Typical Freq. In MHz	Price
					Collector To Base	Collector To Emitter	Emitter To Base				
				Ic	BV_{CBO}	BV_{CEO}	BV_{EBO}	h_{FE}	P_D Watts	f_T	
NTE265	NPN-Si	Darlington Pwr Amp Switch	TO202	.5	50	50	13	10,000 Min	6.25	-	$1.29
NTE280	NPN-Si	Audio Amp Output (Compl to NTE281)	TO3	12	150	150	5	70	100	15	6.29
NTE283	NPN-Si	High Voltage, High Current Switch & Horizontal Output	TO3	10	800	325	8	10 Min	100	6	9.75
NTE284	NPN-Si	Audio Amplifier Output (Compl to NTE285)	TO3	16	180	180	5	70	150	6	9.95
NTE285	PNP-Si	Audio Amplifier Output (Compl to NTE284)	TO3	16	180	180	5	70	150	6	10.85
NTE287	NPN-Si	High Voltage, Low Saturation, Low Cap, Gen Purp Amp (Compl to NTE288)	TO92	.5	300	300	8	40 Min	.625	50 Min	.95
NTE288	PNP-Si	High Voltage, Low Saturation, Gen Purp Amp (Compl to NTE287)	TO92	.5	300	300	5	40 Min	.625	50 Min	.95
NTE289	NPN-Si	Audio Power Amp and Switch (Compl to NTE290)	U83/TO92	.8	35	30	5	120 Min	.6	100	1.25
NTE289A	NPN-Si	Audio Power Amp (Compl to NTE290A)	TO92	.5	100	80	5	100 Min	.6	120	1.29
NTE290	PNP-Si	Audio Power Amp and Switch (Compl to NTE289)	U83/TO92	.8	35	30	5	120 Min	.6	140	1.09
NTE290A	PNP-Si	Audio Power Amp (Compl to NTE289A)	TO92	.5	100	80	5	100 Min	.6	120	1.35
NTE291	NPN-Si	General Purpose Medium Power Amp and Switch (Compl to NTE292)	TO220	4	130	120	5	70	40	4 Min	2.95
NTE292	PNP-Si	General Purpose Medium Power Amp and Switch (Compl to NTE291)	TO220	4	130	120	5	70	40	5 Min	3.25
NTE293	NPN-Si	Audio Amp and Driver (Compl to NTE294)	Giant, TO92	1	60	50	5	120	1 w/Heat Sink .75	200	1.49
NTE294	PNP-Si	Audio Amp and Driver (Compl to NTE293)	Giant, TO92	1	60	50	5	120 Min	1 w/Heat Sink .75	200	1.59
NTE311	NPN-Si	Freq-Multiplier, Amp, Driver Osc, VHF-UHF Pre-Driver	TO39	.4	55	30	3.5	25 Min	5	800 Min	2.59
NTE331	NPN-Si	Audio Power Amp, Switch (Compl to NTE332)	TO220	15	100	100	5	40 Min	90	3 Min	2.89
NTE332	PNP-Si	Audio Power Amp, Switch (Compl to NTE331)	TO220	15	100	100	5	40 Min	90	3 Min	2.65
NTE373	NPN-Si	Audio Amp, Driver (Compl to NTE374)	TO126	1.5	180	160	5	190	20	140	1.75
NTE374	PNP-Si	Audio Amp, Driver (Compl to NTE373)	TO126	1.5	180	160	5	190	20	140	1.95
NTE375	NPN-Si	Vertical Deflection (Compl to NTE398)	TO220	3	200	150	6	150	25	8	2.69
NTE377	NPN-Si	Power Amp Driver, Output, Switch (Switch to NTE378)	TO220	10	80	80	5	60 Min	50	50	2.85
NTE378	PNP-Si	Power Amp Driver, Output, Switch (Compl to NTE377)	TO220	10	80	80	5	60 Min	50	50	2.99
NTE379	NPN-Si	Power Amp, High Voltage, Switch tr = .45 µS Typ	TO220	12	700	400	9	12	100	4 Min	6.99
NTE382	NPN-Si	Audio Frequency Driver (Compl to NTE383)	R245	1	120	100	5	200	.9	140	1.99
NTE383	PNP-Si	Audio Frequency Driver (Compl to NTE382)	R245	1	120	100	5	200	.9	140	2.09
NTE384	NPN-Si	High Voltage Power Amp/Switch tr = .3 µS Typ	TO66	7	375	350	9	28	45	1 Min	6.19
NTE385	NPN-Si	Audio Power Amp, Switch tr = .085 µS Typ	TO3	10	550	350	6	17	150	-	8.49
NTE386	NPN-Si	Audio Power Amp, Switch tr = .3 µS Typ	TO3	20	800	500	6	20	175	-	17.99
NTE389	NPN-Si	Horizontal Output	TO3	6	1500	1500 (CES)	5	5 Min	100	4 Min	6.49
NTE396	NPN-Si	Power Amp & High Speed Switch (Compl to NTE397)	TO39	1	450	350	7	40 Min	10*, 1	15 Min	2.99
NTE397	PNP-Si	Power Amp & High Speed Switch (Compl to NTE396)	TO39	1	350	300	6	30 Min	10*, 1	15 Min	3.05
NTE398	PNP-Si	Vertical Deflection, Audio Amp (Compl to NTE375)	TO220	2	200	150	5	100	25	5	2.99
NTE399	NPN-Si	High Voltage Amp, Video	Giant, TO92	.1	300	300	6	100 Min	.9	50	2.99
NTE2302	NPN-Si	High Voltage Horiz Output w/internal Damper Diode tf = .4 µS	TO3P	5	1500	800	7	8 Min	120*	3	5.99
NTE2308	NPN-Si	High Voltage/Current Switch tf = 1 µS	TO3P	12	500	400	7	15 Min	100*	20	6.99

* $T_C = 25°C$

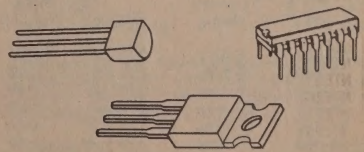
INTEGRATED CIRCUITS

Part# NTE	Pkg.	Description	Price
NTE712	14 Pin Dip	TV Sound IF	$3.75
NTE778A	8 Pin Dip	Dual Op Amp	3.59
NTE834	14 Pin Dip	Quad Comparator	2.39
NTE815	8 Pin Dip	TV Horiz Processor	2.99
NTE923	10 Ld Metal Can	Precision Voltage Regulator	1.75
NTE923D	14 Pin Dip	Precision Voltage Regulator	1.39
NTE928M	8 Pin Dip	Dual Low Power Dual OP-Amp	3.09
NTE931	TO-3	Linear, Voltage Regulator	12.35
NTE941	8 Ld Metal Can	Freq Compensated OP-Amp	1.89
NTE941D	14 Pin Dip	Freq Compensated OP-Amp	3.25
NTE941M	8 Pin Dip	Freq Compensated OP-Amp	.89
NTE943M	8 Pin Dip	Dual Comparator	3.59
NTE955M	8 Pin Dip	Timer/Oscillator	1.65
NTE956	TO-220	Pos VR, 1.2 to 37V, 1.5 Amp	2.99
NTE960	TO-220	Pos VR, 5V, 1 Amp	3.49
NTE964	TO-220	Pos VR, 8V, 1 Amp	3.35
NTE966	TO-220	Pos VR, 12V, 1 Amp	2.99
NTE967	TO-220	Neg VR, -12V, 1 Amp	4.99
NTE968	TO-220	Pos VR, 15V, 1 Amp	3.59
NTE972	TO-220	Pos VR, 24V, 1 Amp	3.49
NTE977	TO-92	Pos VR, 5V, 100 mA	1.59

Part# NTE	Pkg.	Description	Price
NTE978	14 Pin Dip	Dual Timing	$2.78
NTE987	14 Pin Dip	Quad OP-Amp	2.29
NTE992	14 Pin Dip	4 Independent Amps	2.59
NTE1231	12 Pin Dip	TV Sound IF	5.29
NTE1394	12 Pin Dip	Linear, Dual Audio Power	7.95
NTE1471	16 & 2 Pin Dip	TV Horiz Oscillator	7.25
NTE2013	16 Pin Dip	7 Chan. Cmos Input Array	3.49
NTE7403	14 Pin Dip	TTL Quad 2-Input Pos-Nand, OPN Collector	.69
NTE7425	14 Pin Dip	TTL Dual 4 Input Pos-NOR	.95
NTE7432	14 Pin Dip	TTL Quad 2 Input Pos-OR	1.19
NTE7437	14 Pin Dip	TTL Quad 2 Input Pos Nand	.99
NTE7442	16 Pin Dip	TTL BCD to Decimal Decoder	1.99
NTE7472	14 Pin Dip	TTL J-K Master Slave Flip-Flop	1.99
NTE7475	16 Pin Dip	TTL 4 Bit Bistable Latch	2.45
NTE7476	16 Pin Dip	TTL Dual J-K Flip-Flop	1.79
NTE7490	14 Pin Dip	TTL Decade Counter	1.49
NTE7493A	14 Pin Dip	TTL 4 Bit Binary Counter	1.59
NTE74121	14 Pin Dip	TTL Monostable Multivibrator	1.32
NTE74192	16 Pin Dip	TTL BCD Counter	3.87
NTE74193	16 Pin Dip	TTL Binary Counter	3.87

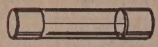
TRIACS

Part# NTE	Description	Pkg.	V_{RRM} DC or Peak	I_T RMS Max. TWD	I_{GT} (mA)	V_{GT} (V)	V_{FON} (V)	I Surge (A)	I Hold (mA)	Price
NTE5635	TRIAC	TO220	400 V	10A	50	2.5	1.65	100	50	$3.39
NTE5645	TRIAC	TO220	600 V	10A	25/50	2.5	1.6	110	50	3.89
NTE5656	TRIAC	TO92	400 V	.8A	5	2	1.5	8	20	1.83



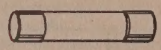
UL LISTED NORMAL BLOW 3AG - 250V FUSES

1-1/4" long x
1/4" diameter



Part#	Current Rating	Price Box of 5
31-205	1/16 Amp	$4.25
31-206	1/10 Amp	3.75
31-207	1/8 Amp	3.75
31-208	15/100 Amp	3.75
31-209	3/16 Amp	3.75
31-210	2/10 Amp	3.75
31-780	1/4 Amp	2.09
31-211	3/10 Amp	2.09
31-212	3/8 Amp	2.09
31-213	4/10 Amp	2.09
31-781	1/2 Amp	1.45
31-214	7/10 Amp	1.45
31-215	6/10 Amp	1.45
31-782	3/4 Amp	1.45
31-216	8/10 Amp	1.39
31-783	1 Amp	1.19
31-217	1-1/8 Amp	1.19
31-218	1-1/4 Amp	1.19
31-784	1-1/2 Amp	1.19
31-219	1-6/10 Amp	1.19
31-220	1-3/4 Amp	1.19
31-785	2 Amp	1.19
31-786	2-1/2 Amp	1.19
31-787	3 Amp	1.19
31-788	3-1/2 Amp	1.45
31-789	4 Amp	1.45
31-790	5 Amp	1.45
31-791	6 Amp	1.45
31-792	7 Amp	1.45
31-221	7-1/2 Amp	1.45
31-793	8 Amp	1.59
31-794	10 Amp	1.59

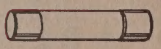
UL LISTED NORMAL BLOW 3AG CERAMIC BODY FUSES



1-1/4" long x 1/4" diameter
For microwaves and other small appliances.

Part#	Current Rating	Voltage	Price Box of 5
31-771	5 Amp	250 volt	$2.49
31-772	10 Amp	250 volt	2.49
31-773	15 Amp	250 volt	2.49
31-774	20 Amp	250 volt	4.25
31-775	25 Amp	125 volt	4.25
31-776	30 Amp	125 volt	4.25

UL LISTED SLOW BLOW 3AG CERAMIC FUSES

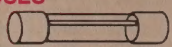


1-1/4" long x 1/4" diameter
Designed for circuits with high inrush currents.

Part#	Current Rating	Voltage	Price Box of 5
31-347	5 Amp	250 volt	$4.49
31-348	10 Amp	250 volt	4.49
31-349	15 Amp	250 volt	4.49
31-351	20 Amp	250 volt	4.49
31-352	25 Amp	125 volt	4.49
31-353	30 Amp	125 volt	4.49

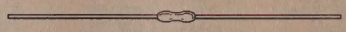
UL LISTED SLOW BLOW 3AG - 250V-32V FUSES

1-1/4" long x
1/4" diameter



Part#	Current Rating	Voltage	Price Box of 5
31-223	1/16 Amp	250 volt	$6.49
31-224	1/10 Amp	250 volt	4.99
31-225	1/8 Amp	250 volt	4.99
31-226	15/100 Amp	250 volt	4.99
31-227	.175 Amp	250 volt	4.99
31-228	3/16 Amp	250 volt	4.99
31-229	2/10 Amp	250 volt	4.99
31-231	1/4 Amp	250 volt	3.45
31-232	3/10 Amp	250 volt	3.45
31-233	3/8 Amp	250 volt	3.45
31-234	4/10 Amp	250 volt	3.45
31-795	1/2 Amp	250 volt	3.35
31-236	6/10 Amp	250 volt	3.35
31-237	7/10 Amp	250 volt	3.35
31-238	3/4 Amp	250 volt	3.35
31-239	8/10 Amp	250 volt	3.35
31-357	1 Amp	250 volt	3.25
31-241	1-2/10 Amp	250 volt	2.65
31-242	1-1/4 Amp	250 volt	2.65
31-797	1-1/2 Amp	250 volt	2.65
31-243	1-6/10 Amp	250 volt	2.65
31-244	1-8/10 Amp	250 volt	2.65
31-798	2 Amp	250 volt	2.65
31-246	2-1/4 Amp	250 volt	2.65
31-799	2-1/2 Amp	250 volt	2.65
31-247	2-8/10 Amp	250 volt	2.65
31-800	3 Amp	250 volt	2.65
31-248	3-2/10 Amp	250 volt	2.65
31-249	3-1/2 Amp	250 volt	2.65
31-801	4 Amp	250 volt	2.65
31-802	5 Amp	250 volt	2.65
31-803	6 Amp	250 volt	2.65
31-251	6-1/4 Amp	250 volt	2.65
31-804	7 Amp	250 volt	2.65
31-805	8 Amp	125 volt	2.65
31-252	10 Amp	125 volt	3.65
31-253	12 Amp	125 volt	3.65
31-254	15 Amp	125 volt	3.65
31-256	20 Amp	32 volt	3.65
31-257	25 Amp	32 volt	3.65
31-258	30 Amp	32 volt	3.65

UL LISTED PICO FUSES 125V - AXIAL LEAD

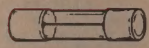


Body- .280" long x .125" dia.
Lead- 1.50" long x .025" dia.

Part#	Current Rating	Price Each
31-837	.0625 Amp	$ .89
31-762	.125 Amp	.79
31-763	.25 Amp	.79
31-838	.375 Amp	.79
31-764	.5 Amp	.79
31-765	.75 Amp	.65
31-766	1 Amp	.65
31-839	1.5 Amp	.65
31-767	2 Amp	.65
31-840	2.5 Amp	.65
31-768	3 Amp	.65
31-841	3.5 Amp	.65
31-769	4 Amp	.65
31-770	5 Amp	.65
31-842	7 Amp	.65
31-843	10 Amp	.99
31-844	15 Amp	.99

UL LISTED SLOW BLOW GMA INSTRUMENT FUSES

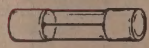
5mm dia. x 20mm long
(.197") x (.787")



Part#	Current Rating	Voltage Rating	Price Box of 5
31-294	1/10 amp	250 volt	$4.25
31-304	1/8 amp	250 volt	4.25
31-305	16/100 amp	250 volt	4.25
31-306	2/10 amp	250 volt	4.25
31-307	1/4 amp	250 volt	4.25
31-826	3/10 amp	250 volt	4.25
31-308	.315 amp	250 volt	4.25
31-827	4/10 amp	250 volt	4.25
31-828	1/2 amp	250 volt	2.95
31-829	6/10 amp	250 volt	2.95
31-309	63/100 amp	250 volt	2.95
31-310	7/10 amp	250 volt	2.95
31-830	3/4 amp	250 volt	2.95
31-831	8/10 amp	250 volt	2.95
31-832	1 amp	125 volt	2.95
31-833	1-1/4 amp	125 volt	2.95
31-834	1-6/10 amp	125 volt	2.95
31-835	2 amp	125 volt	2.95
31-386	2-1/2 amp	125 volt	2.95
31-311	3 amp	125 volt	2.85
31-312	3.15 amp	125 volt	2.85
31-313	3-1/2 amp	125 volt	2.85
31-314	4 amp	125 volt	2.85
31-315	5 amp	125 volt	2.85
31-316	6 amp	125 volt	2.85
31-317	6-3/10 amp	125 volt	2.85
31-318	7 amp	125 volt	3.75
31-319	8 amp	125 volt	3.75
31-321	10 amp	125 volt	3.75

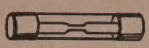
UL LISTED FAST ACTING GMA INSTRUMENT FUSES

5mm dia. x 20mm long
(.197") x (.787")



Part#	Current Rating	Voltage Rating	Price Box of 5
31-291	1/16 amp	250 volt	$6.35
31-292	1/10 amp	250 volt	4.25
31-293	1/8 amp	250 volt	4.25
31-806	16/100 amp	250 volt	2.85
31-807	2/10 amp	250 volt	2.85
31-808	1/4 amp	250 volt	2.85
31-809	3/10 amp	250 volt	2.85
31-810	4/10 amp	250 volt	2.85
31-811	1/2 amp	250 volt	2.25
31-812	6/10 amp	250 volt	2.25
31-295	63/100 amp	250 volt	2.25
31-813	7/10 amp	250 volt	2.25
31-814	3/4 amp	250 volt	2.25
31-815	8/10 amp	250 volt	2.25
31-816	1 amp	250 volt	2.25
31-817	1-2/10 amp	250 volt	2.25
31-818	1-1/4 amp	250 volt	2.25
31-819	1-1/2 amp	250 volt	2.25
31-820	1-6/10 amp	250 volt	2.25
31-821	2 amp	250 volt	2.25
31-822	2-1/2 amp	250 volt	2.25
31-823	3 amp	250 volt	2.25
31-824	3.15 amp	125 volt	2.25
31-825	3-1/2 amp	125 volt	2.25
31-296	4 amp	125 volt	2.25
31-297	5 amp	125 volt	2.25
31-298	6 amp	125 volt	2.25
31-299	6-3/10 amp	125 volt	2.25
31-300	7 amp	125 volt	2.40
31-301	8 amp	125 volt	2.40
31-302	10 amp	125 volt	2.40
31-303	15 amp	125 volt	2.40

NORMAL BLOW FUSES

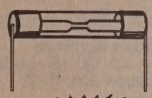


AGC type, 3AG type
1-1/4" x 1/4"
250 volt

1-19 boxes of 5/$ .45
20 or more boxes of 5/$ .30
No Mixing Values
For Discount

Part#	Current Rating	Part#	Current Rating
31-005	.25	31-050	5.0
31-010	.50	31-055	6.0
31-015	.75	31-060	7.0
31-020	1.0	31-062	7.5
31-025	1.5	31-065	8.0
31-030	2.0	31-070	10.0
31-035	2.5	31-075	15.0
31-040	3.0	31-080	20.0
31-272	3.5	31-273	30.0
31-045	4.0		

NORMAL BLOW PIGTAIL FUSES



GJV type, 3AG type
1-1/4" x 1/4", 250 volt

Box of 5 $ .75

Part#	Amp	Part#	Amp
31-286	.25	31-250	3.0
31-230	.50	31-255	4.0
31-287	.75	31-260	5.0
31-235	1.0	31-265	6.0
31-240	1.5	31-270	7.0
31-245	2.0	31-290	10.0
31-288	2.5		

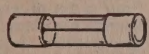
SLOW BLOW FUSES

MDL type, 3AG type
1-1/4" x 1/4"
250 volt

Box of 5 $1.50

Part#	Amp	Part#	Amp
31-130	.50	31-160	3.5
31-135	1.0	31-165	4.0
31-140	1.5	31-170	5.0
31-145	2.0	31-175	6.0
31-150	2.5	31-180	7.0
31-155	3.0	31-283	8.0

FAST ACTING MINIATURE FUSES

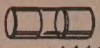


GMA type, F type
5mm x 20mm
.197" x .769", 250 volt

Box of 5 $ .75

Part#	Amp	Part#	Amp
31-274	.25	31-345	3
31-320	.5	31-278	3.15
31-275	.75	31-350	4
31-325	1	31-355	5
31-276	1.25	31-360	6
31-330	1.5	31-365	7
31-277	1.6	31-279	8
31-335	2	31-280	10
31-340	2.5		

1AG (AGA) FUSES

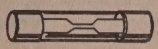


5/8" long x 1/4" diameter
32 volt. For car stereo amplifier applications

Box of 5 $1.59

Part#	Current Rating	Part#	Current Rating
31-323	1 Amp	31-328	5 Amp
31-324	1.5 Amp	31-331	6 Amp
31-326	2 Amp	31-332	7.5 Amp
31-327	3 AMp	31-333	10 Amp

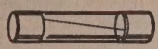
5AG (AGU) FUSES



5AG (AGU), 32 volt
1-1/2" long x 13/32" diameter
High current protection

Part#	Current Rating	Price Box of 5
31-190	10 Amp	$3.95
31-191	15 Amp	3.95
31-183	20 Amp	3.75
31-184	25 Amp	3.75
31-185	30 Amp	3.75
31-186	35 Amp	3.75
31-187	40 Amp	3.75
31-188	50 Amp	3.75
31-189	60 Amp	3.75

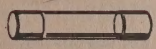
8AG (AGX) FUSES



1" long x 1/4" diameter

Part#	Current Rating	Voltage	Price Box of 5
31-334	1 Amp	250 volt	$1.25
31-336	3 Amp	125 volt	1.25
31-337	4 Amp	125 volt	1.25
31-338	5 Amp	125 volt	1.25
31-339	6 Amp	125 volt	1.25
31-341	8 Amp	32 volt	1.25
31-342	10 Amp	32 volt	1.25
31-343	15 Amp	32 volt	1.25
31-344	20 Amp	32 volt	1.25
31-346	30 Amp	32 volt	1.25

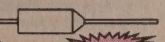
CERAMIC FUSES



ABC type, 1-1/4" x 1/4"
Ceramic fuses for use in microwave ovens.

Part#	Amperage	Price
31-354	10	Box of 5/$1.50
31-356	12	Box of 5/$1.50
31-181	15	Box of 5/$1.50
31-182	20	Box of 5/$1.50

THERMAL FUSES



Body 7/16" x 1/8" dia.
Rated @ 15 amps

$1.25

Part#	Opening Temp Max °C	°F	Part#	Opening Temp Max °C	°F
58-100	58	136.4	58-110	117	242.6
58-101	60	140.0	58-111	121	249.8
58-102	66	150.8	58-120	128	262.4
58-103	72	161.6	58-113	141	285.8
58-104	77	170.6	58-114	152	305.6
58-105	84	183.2	58-115	167	332.6
58-106	91	195.8	58-116	184	363.2
58-107	98	208.4	58-117	216	420.8
58-108	104	219.2	58-118	228	442.4
58-109	109	228.2	58-119	240	464.0

AUTOMOTIVE BLADE TYPE FUSES

1 pack of 5/$ .75

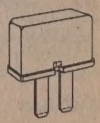
Part#	Amperage	Color
31-703	3.0	Violet
31-710	7.5	Brown
31-720	10.0	Red
31-730	15.0	Blue
31-740	20.0	Yellow
31-750	25.0	Clear
31-760	30.0	Green

ATC FUSE ASSORTMENT

One pack of 6 different values:
7.5, 10, 15, 20, 25 and 30 amp. ATC type

31-900.....$ .99

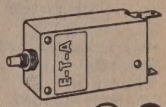
20 AMP AUTO RESET BREAKER



Mfg. - GTE
Mfg.# - 4604235
12 volt, 20 amp circuit breaker.
Replaces standard blade type automotive fuse.

12-151.....$ .99

MANUAL RESET



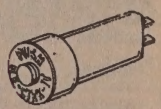
Mfg. - ETA
Mounts in 3/8" hole.
Quick connect terminals.
Hardware included.

.2A - 28 VDC - 250 VAC
12-159.....2-3/4" L x 3/4" W.....$1.95

1.2A - 28 VDC - 250 VAC
12-148.....3" L x 1-1/8" W.....$1.95

3A - 28 VDC - 250 VAC
12-158.....3" L x 1-1/8" W.....$1.95

RE-CIRK-IT®



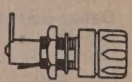
Manual reset
O.A. length: 2-1/4"
This push button circuit protector is a direct replacement for glass fuses. Mounts in a 5/8" hole. Nut lock not included.

1.75 Amp - 50 VDC - 250 VAC
12-161.....$1.95

2 Amp - 50 VDC - 250 VAC
12-160.....$1.95

9 Amp - 50 VDC - 250 VAC
12-105.....$1.50

3AG FUSEHOLDER



Mfg. - LITTELFUSE
Mfg.# - 342004A
Fluted knob with bayonet cap, white lettering. Rated 20A @ 250V. For 1-1/4" x 1/4" AGC fuse. Mounts in 1/2" hole. Solder terminal. Hardware included.

342004A.....$1.25

Littelfuse®

3AG FUSEHOLDER

Mfg. - LITTELFUSE
Mfg.# - 342014A
Fluted knob with bayonet cap, white lettering. Rated 20A @ 250V. For 1-1/4" x 1/4" AGC fuse. Mounts in 1/2" hole. Solder terminal. Hardware included.

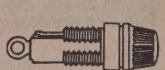
342014A.....$1.25

3AG FUSEHOLDER

Mfg. - LITTELFUSE
Mfg.# - 342004A
Fluted knob with bayonet cap, white lettering. Rated 20A @ 250V. For 1-1/4" x 1/4" AGC fuse. Mounts in 1/2" hole. Solder terminal. Hardware included.

342004A.....$1.25

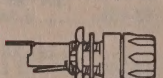
3AG FUSEHOLDER



Mfg. - LITTELFUSE
Mfg.# - 342012A
Knurled knob with bayonet cap, white lettering. Rated 20A @ 250V. For 1-1/4" x 1/4" AGC fuse. Mounts in 1/2" hole. Solder terminal. Hardware included.

342012A.....$1.25

3AG FUSEHOLDER



Mfg. - LITTELFUSE
Mfg.# - 342838A
Fluted knob with bayonet cap, white lettering. Rated 20A @ 250V. For 1-1/4" x 1/4" AGC fuse. Mounts in 1/2" hole. 1/4" quick connect. Hardware included.

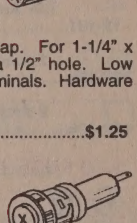
342838A.....$1.45

3AG FUSEHOLDER

Mfg. - BUSSMANN
Mfg.# - HTB-261
Knurled knob with bayonet cap. For 1-1/4" x 1/4" AGC fuse. Mounts in a 1/2" hole. Low profile 1/4" quick connect terminals. Hardware included.

HTB-261.....$1.25

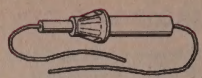
3AG FUSEHOLDER



Mfg. - EDK
Mfg.# - FH-S07
Screwdriver slot knob
Rated 10 amp @ 250 VAC
For 1-1/4" x 1/4" AGC fuse.
Mounts in a .6" hole, snap mount. Solder tab.

43-195.....$ .65

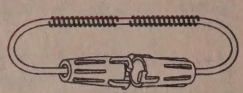
AGC IN-LINE FUSEHOLDER



Bayonet type assembly
22 AWG wire
For 1-1/4" x 1/4" AGC fuse. Overall length 16".

43-172.....$ .30

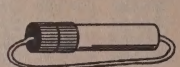
TWIST-LOCK 3AG IN-LINE FUSE HOLDER



Mfg. - LITTELFUSE, #155
Rated up to 20 amp. For use at 32V or less with 1-1/4" x 1/4" fuses. Includes 7-1/2" loop of #14 AWG wire. Black UL94V2. Thermoplastic housing.

43-204.....$ .59

AGC IN-LINE FUSEHOLDER



For 1-1/4" x 1/4" AGC fuse
Overall length 9"

43-182.....14 AWG.....$ .59
43-181.....12 AWG.....$ .69
43-180.....10 AWG.....$ .79

ATC IN-LINE FUSEHOLDER

Heavy duty bakelite
Waterproof cover
For blade type fuses

8" 16 AWG wire
FH14.....$1.25

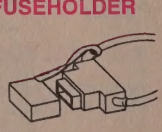
4-1/2" 12 AWG wire
43-188.....$1.25

MINI ATC FUSEHOLDER

For use with mini ATC type fuses. 12 AWG red wire forms a 10" loop. Holder and cover. Current up to 30 amp.

43-179.....$1.25

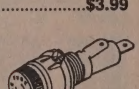
MAXI ATC IN-LINE FUSEHOLDER



For Maxi fuse blade fuses
Waterproof cover
8 AWG wire
Current up to 60 amps

43-185.....$3.99

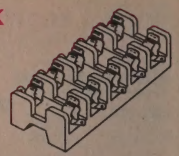
3AG FUSEHOLDER



Mfg. - ALCO
Threaded type knob.
Rated 15 amp @ 125 VAC. For 3AG 1-1/4" x 1/4" fuse. Mounts in a .6" hole. Solder terminal hook-up. Hardware included.

43-205.....$ .49

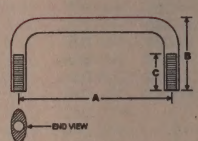
3AG FUSE BLOCK



Black molded base with solder terminal.
Holds 1-1/4" x 1/4" AGC fuses
Rated at 10 amp.

43-176.....5 Position.....$1.25
43-191.....8 Position.....$1.99
43-177.....10 Position.....$2.49

OVAL INSTRUMENTATION HANDLES



Charcoal gray aluminum
A = 2-1/2"
B = 1-5/16"
C = 3/4"
Screw size: 10-32

74-395.....$ .99

Black aluminum.
A = 2-1/2" • B = 1-5/16" • C = 3/4"
Screw size: 10-32

74-505.....$1.95

KNOBS

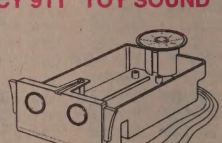
Fits 1/4" dia shaft
O.A. Dim 3/4" x 5/8" high. High-impact black (ABS) knurled knob with aluminum insert. One set screw featuring brushed aluminum inlay.

KB60.....$ .45

Black knob
1-1/4" dia x 3/4" tall
Stud 3/4" long
Thread size 7/16" - 14NC

24-134.....$ .35

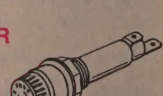
"EMERGENCY 911" TOY SOUND MODULE



6"(L) x
4-3/4"(W) x
2-1/4"(H)
Individual buttons that play:
(Button 1) "Emergency 911"
(Button 2) Yelp siren
Four grain of wheat bulbs that flash when sounds are played on 22" long wires. Plastic construction. 2-1/4" speaker. Powered by 3 "AA" batteries (included).

911.....$ .75

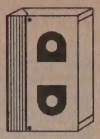
GMA FUSEHOLDER



Mfg. - LITTELFUSE
Mfg.# - 3455LF4
Knurled knob with bayonet type cap. Mounts in 1/2" hole. Rated 10 amp @ 250V. For 5 x 20mm fuse. 1/4" quick connect terminal. Hardware included.

3455LF4.....$ .85

BRING ELECTRONICS THEORY TO LIFE



100% Computer Animated • Workbook Included

Perfect teaching tool for Electronics class or seminar!

The Ucando Electronic Educational Videos are a must for anyone wanting to learn about electronics. Whether it be used by the self taught beginner, the electronics instructor or by the professional. These tapes provide comprehensive and easy to follow concepts and instructions.

ELECTRONICS SERIES

PART 1 : DC ELECTRONICS
VT201.....51 Minutes.....$29.95

PART 2 : AC ELECTRONICS
VT202.....62 Minutes.....$29.95

PART 3 : SEMICONDUCTORS
VT203.....57 Minutes.....$29.95

PART 4 : POWER SUPPLIES
VT204.....56 Minutes.....$29.95

PART 5 : AMPLIFIERS
VT205.....57 Minutes.....$29.95

PART 6 : OSCILLATORS
VT206.....53 Minutes.....$29.95

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DIGITAL 1 : GATES
VT301.....54 Minutes.....$29.95

DIGITAL 2 : FLIP-FLOPS
VT302.....55 Minutes.....$29.95

DIGITAL 3 : REGISTERS, DISPLAYS
VT303.....54 Minutes.....$29.95

DIGITAL 4 : DAC AND ADC
VT304.....57 Minutes.....$29.95

DIGITAL 5 : MEMORY DEVICES
VT305.....56 Minutes.....$29.95

DIGITAL 6 : THE CPU
VT306.....56 Minutes.....$29.95

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AM RADIO
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FM RADIO : PART 1
VT402.....58 Minutes.....$29.95

FM RADIO : PART 2
VT403.....58 Minutes.....$29.95

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PART 1 : "INTRO TO TV"
VT404.....56 Minutes.....$29.95

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VT405.....58 Minutes.....$29.95

PART 3 : "AUDIO"
VT406.....57 Minutes.....$29.95

PART 4 : "AGC/SYNC"
VT407.....57 Minutes.....$29.95

PART 5 : "CONVERGENCE"
VT408.....56 Minutes.....$29.95

PART 6 : "COLOR"
VT409.....60 Minutes.....$29.95

VCR SERIES

VCR REPAIR
VT102.....84 Minutes.....$29.95

VCR MAINTENANCE
VT103.....32 Minutes.....$24.95

FIBER OPTICS
VT501.....58 Minutes.....$29.95

LASER TECHNOLOGY
VT502.....57 Minutes.....$29.95

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—Sequoia Publishing ...544 pages
Size: 5-3/8" x 3-1/4"
A reference book of hard to find info on PC & compatible computers.Contains DOS command references through 6.0 error codes, I/O pin outs, ASCII codes, scan codes, video standards, printer control codes, hard drive specifications, memory map & PC industry phone book. A tremendous value.

65-103.....$12.95

POCKET REFERENCE

—Sequoia Publishing ...544 pages
Size: 5-3/8" x 3-1/4"
A reference book of maps, tables, charts, specifications, formulas, constants and conversions. Covers electrical, auto, chemistry, math, physics, wire, tools, water, air plumbing, surveying, metals, paints,solvents, carpentry, hardware, an 800 phone directory for airlines and lost credit cards, and much more.

65-102.....$7.95

IC CROSS REFERENCE BOOK

—by Howard W. Sams ...168 pages
A complete easy to read cross reference guide to ICs and module replacements and substitutions for over 35,000 part numbers for the United States, Europe and the Far East.

61096.....$18.95

SEMICONDUCTOR CROSS REFERENCE BOOK

—by Howard W. Samms
Fourth edition...671 pages
A comprehensive listing of over 490,000 registered transistor, IC and diode part numbers, cross referenced to standard, off-the-shelf general line replacements.

61080.....$24.95

SEMICONDUCTOR CROSS REFERENCE on CD-ROM

—by Howard W. Samms
CD-ROM, Enhanced Version
- Over 490,000 listings
- U.S., Europe & Far East part numbers
- Covers all major types
- OEM listings
- NTE, ECG, TCE, Radio Shack

Covers all major types of semiconductors: bipolar transistors, FETs, diodes, rectifiers, ICs, SCRs, LEDs, modules and thermal devices.

Minimum system requirements:
- Windows95 or higher
- 60 MB of free disk space

New

61140.....$28.95

CHEM-WIK® DESOLDERING BRAID

Mfg. - CHEMTRONICS
Advanced technology braid that performs faster with less heat. Meets MIL specs.

5ft. Spools

Part#	Width	Color	Price
2-5L	.030"	GRAY	$1.49
5-5L	.050"	YELLOW	1.54
7-5L	.075"	GREEN	1.65
10-5L	.100"	BLUE	1.70
15-5L	.150"	BROWN	1.89
19-5L	.190"	RED	1.99

25ft. Spools

2-25L	.030"	GRAY	$6.99
5-25L	.050"	YELLOW	6.99
7-25L	.075"	GREEN	7.25
10-25L	.100"	BLUE	7.99
15-25L	.150"	BROWN	8.99
19-25L	.190"	RED	9.25

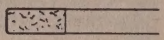
50ft. Spool

19-50L	.190"	RED	$14.95

100ft. Spools

2-100L	.030"	GRAY	$24.95
5-100L	.050"	YELLOW	26.95
7-100L	.075"	GREEN	27.95
10-100L	.100"	BLUE	29.95
15-100L	.150"	BROWN	33.95
19-100L	.190"	RED	34.95

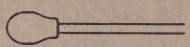
CHAMOIS TIPS



Ultra-clean synthetic chamois material for cleaning and polishing video tape heads

CC15.....Pack of 15.....**$7.75**

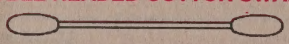
FOAMTIPS



6" wooden handle. Cellular urethane (foam) over cotton bud swab. 100% lint free.

CF.....Pack of 15.....**$4.49**

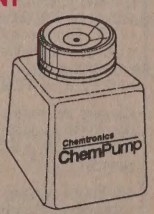
DOUBLE HEADED COTTON SWABS



6" white birch handle. Tightly wrapped cotton swabs for critical applications

CT200.....Pack of 100.....**$2.35**

CHEMPUMP SOLVENT DISPENSER



Compact solvent dispenser delivers a measured amount of solvent to surface reservoir cup with the lightest touch of a brush, applicator or sponge. Airtight check valve prevents contaminated liquid from dripping back in bottle and prevents evaporation. Plastic container with metal pump action.

CP40.....4 oz **$12.75**
CP60.....6 oz **$13.25**

DUSTER

Nonflammable, safe on plastics. Moisture free formulation leaves no residue and has no ozone depleting compounds. Removes dust, dirt and other particles without scratching surfaces. Ideal for computer and other office equipment, PC boards, audio/video and telecommunication products. 12 cans per case.

		(1-11)	(12-Up)
ES1217	10 oz	**$4.49**	**$3.99**
ES1617	12 oz	**$7.35**	**$6.99**

FREEZ-IT

Nonflammable. Circuit refrigerant ideal for locating thermal intermittent components. Quickly lowers temperature to -60°F (-51°C). Ultra pure formulation is non abrasive and leaves no residue. CFC/HCFC free. Use to locate thermal intermittent components, test for trace continuity or provide heat sink protection during soldering or desoldering. Also effectively hardens adhesives for easy removal. Leaves no contaminating residue. 12 cans per case.

		(1-11)	(12-Up)
ES1050	10 oz	**$9.95**	**$9.25**

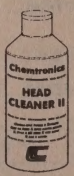
ANTISTAT
ES1051.....10 oz.....**$11.95**...**$11.49**

TUN-O-WASH®

Contains no CFCs. The first step in restoring a TV tuner to its original condition. Specially formulated solvents thoroughly degrease oil, dirt, and gunk encrusted contacts. Instantly removes built up oxidation, leaving parts and contacts totally clean. Tun-O-Wash evaporates quickly, leaves no residue and is SAFE FOR MOST PLASTIC parts used in tuners. 12 cans per case.

		(1-11)	(12-Up)
ES2400	16.6 oz Aerosol	**$10.99**	**$10.25**

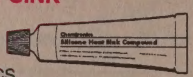
HEAD CLEANER II



Contains no CFCs. Audio/video cleaner. Effectively removes oxides, dust, oils and many other contaminants from magnetic tape/disk heads, computer drives and more. Safe for use on metals and most plastics. 12 cans per case.

		(1-11)	(12-Up)
ES820L	8 oz Liquid	**$6.49**	**$5.99**

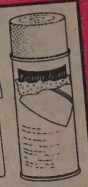
SILICONE HEAT SINK COMPOUND



Mfg. - CHEMTRONICS
This non-corrosive grease provides excellent thermal transfer. High performance formula.

16-132.....5 oz tube.....**$10.49**

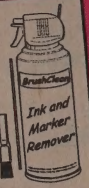
LABEL ADHESIVE REMOVER



The no-drip foaming label adhesive remover, safe for use on metal, glass, ceramic and most plastic surfaces. Easy-to-use peel away label, spray foam on adhesive residue and wipe clean whan foam collapses. Flammable. Ozone safe, CFC/HCFC free.

		(1-11)	(12-Up)
ES805	6 oz	**$6.99**	**$6.49**

INK AND MARKER REMOVER



Removes marks left by pens, pencils, markers, stamp pads, crayons and wax-based materials. Brush applicator puts cleaner exactly where you need it. Not recommended for use on painted surfaces. Safe for most plastics and metals. Flammable. Ozone safe, CFC/HCFC free.

		(1-11)	(12-Up)
ES806B	6 oz	**$6.75**	**$6.35**

FLUX-OFF

Contains no CFCs. Alcohol blend defluxer removes all types of organic flux with less product. Water soluable safe on water-sensitive components. Out performs TMS-based solvents. For PC boards, sensitive circuit components, plugs and sockets. 12 cans per case.

		(1-11)	(12-Up)
ES1530	13.5 oz Spray	**$8.25**	**$7.49**

ELECTRO-WASH NX CLEANER/DEGREASER

Nonflammable. Contains no CFCs. Removes oil, grease, dirt, silicone, flux and adhesive. Engineered for PC boards, motors, interfaces, screens, metal and fiber optic cable splices and more. 12 cans per case.

		(1-11)	(12-Up)
ES1601	14.5 oz Aerosol	**$10.25**	**$9.75**

ELECTRO-WASH PX

Contains no CFCs or HCFCs. Excellent for cleaning PC boards, controls, motors, contacts, metal and fiber optic cable splices and screens. Quickly penetrates and removes soils and contaminants. Safe for plastics. 12 cans per case.

		(1-11)	(12-Up)
ES1210	12.5 oz Aerosol	**$10.49**	**$9.99**

CONTACT CLEANER POW-R-WASH PR

CFC free cleaner on plastics. Removes grease, dirt, oil, carbon and oxidation and restores continuity of contacts and switches. Fast drying, leaves no residue. For use on contact, switches, relays, connectors, potentiometers, terminals and meters. Not for use on energized equipment. 12 cans per case.

	(1-11)	(12-Up)
ES1605.....10 oz.....	$6.59	$5.99

NO FLASH CONTACT CLEANER POW-R-WASH NR

Nonflammable, non-corrosive contact cleaner. Removes grease, dirt, oil, carbon and oxidation and restores continuity of contacts and switches. Safe for use on all metals, check compatibility on plastics. Fast drying, leaves no residue. For use on contacts, switches, relays, connectors, potentiometers, terminals and meters. May be used on energized equipment. 12 cans per case. Contains no CFCs.

	(1-11)	(12-Up)
ES1606.....12 oz.....	$8.79	$7.99

POW-R-WASH CONTACT CLEANER

Nonflammable. Contains no CFCs. Quick penetrating cleaner that restores electrical continuity for contacts and switches. Removes oils, carbon soils, greases and oxides. Cleans relays, circuit breakers, electrical panels, fuse blocks and more. 12 cans per case.

	(1-11)	(12-Up)
ES1602.....14.5 oz Aerosol.....	$10.99	$9.95

CONTACT CLEAN 2000

Nonflammable cleaner quickly removes soils, oxides and other contaminants from metal-to-metal contacts. Heavy-duty, noncorrisive spray evaporates quickly and is safe for sensitive metals. Penetrates quickly to clean hard to reach areas and may be used on energized equipment. Check compatibility on plastics. Effective for use on electrical or electronic contacts found in electrmechanical assemblies, PC boards, motors, connectors and telecommunications deevices. 12 cans per case.

	(1-11)	(12-Up)
ES2202.....14.2 oz.....	$14.99	$13.24

KONTACT RESTORER

Contains no CFCs. Nonflammable. Lubricates and protects in one step. Protects metal contacts from carbon build-up, oxidation and corrosion while minimizing friction and wear. Excellent dielectric properties and is fast drying for quick rework and repair. May be used on energized equipment, check compatibility with plastics. Ideal for all metal-to-metal contacts, solenoids, switches, controls, potentiometers, plugs, relays and sockets. 12 cans per case.

	(1-11)	(12-Up)
ES1628.....16 oz.....	$12.25	$10.75

CFC FREE FLUX-OFF ROSIN

Fast drying aerosol quickly and completely removes R, RMA, RA and rosin based flux. Superior wetting; solvent flushes areas under components clean. Effective spot cleaner for removing flux, oil, ionic and non-ionic soils. Noncorrosive, safe for plastics. Formulated for a wide range of material compatibility. No rinsing required. CFC/HCFC free, no ozone depleting compounds. Not for use on energized equipment. Engineered for fast repair and rework. use on printed circuit boards and SMD pads. 12 cans per case.

	(1-11)	(12-Up)
ES1035.....10 oz	$8.99	$8.35

5 oz field service size with "Brush Clean System"

	(1-11)	(12-Up)
ES835B.....5 oz.....	$5.49	$4.99

CLEANER/DEGREASER ELECTRO-WASH PR

Cleaner and degreaser removes grease, dirt, oil, carbon, oxidation and encrusted flux. Safe for use on plastics and metals. Fast drying formula leaves no residue. Contains no CFCs. Cleans PC boards, plastic and metal housings, magnetic pick-ups, contacts, metal and fiber optic splices and potentiometers. Not for use on energized equipment. 12 cans per case. Flammable.

	(1-11)	(12-Up)
ES1603.....10 oz.....	$6.49	$5.99

6.8 oz field service size with "Brush Clean System" *Special*

	(1-11)	(12-Up)
ES810B.....6.8 oz.....	$5.99	$5.49

POW-R-WASH

Nonflammable. Contains no class 1 CFCs. Highly effective solvent cleaner for electronic components such as switches, motors, PC boards, printers, relays and more. SAFE ON MOST PLASTICS. Dries fast - leaves no residue. Removes oils, carbon soils, greases and oxides. 12 cans per case. *Special*

ES1681.....12 oz Aerosol.....		$18.99

3.4 oz field service size with "Brush Clean System" *Special*

ES881B.....3.4 oz.....		$10.75

GOLD GUARD

Formulated for cleaning and lubricating gold, silver, platinum and other noble metal contacts and connectors. Protects, cleans and lubricates in one step. Safely removes oxides and other contaminant's without the risk of abrasion damage. Lubricant remains stable up to 200°F and causes no electrical resistance. CFC/HCFC free. Safe on plastics. Not for use on energized equipment.

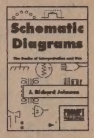
	(1-11)	(12-Up)
ES601.....5 oz.....	$7.25	$6.25

VIDEO SCRAMBLING AND DESCRAMBLING FOR SATELLITE AND CABLE TV

—by Rudolf Graf & William Sheets
...256 pages
This book helps readers understand how signals are decoded and encoded. It discusses the theory and techniques behind over-the-air and cable signals. Actual descrambling projects are provided. Included are hands-on projects for building a scrambler & descrambler, along with how-to-build a video test generator with scrambling capabilities.

22499.....**$24.95**

SCHEMATIC DIAGRAMS



-by J. Richard Johnson ...196 pages
Step by step, this book shows you how to recognize schematic symbols and determine their uses and functions in diagrams. Learn how to design, maintain and repair electronic equipment as this book takes you logically through the fundamentals of schematic diagrams. Subjects covered include: Component symbols and diagram formation, functional sequence and block diagrams, power supplies, audio systems, computer diagrams and more.

61059.....**$15.95**

THE COMPLETE RF TECHNICIANS HANDBOOK

-by Cotter W. Sayre
Get a solid grounding in the latest methods and circuits employed in today's RF communication gear as well as the ability to test and troubleshoot transmitters, transceivers and receivers with absolute confidence. Topics covered include reactance, phase angle, logarithms, diodes, passive filters, amplifiers and distortion. Various multiplexing methods and data, satellite spectrum, cellular and microwave communication technologies are discussed.

61085.....**$23.95**

POWER SUPPLY PROJECTS

- by Maplin Staff ...177 pages
Using circuit diagrams, PCB layouts, parts lists and clear construction and installation details, Provides everything someone with a basic knowledge of electronics needs to know in order to put that knowledge into practice.

67054.....**$18.95**

UNDERSTANDING TELEPHONE ELECTRONICS - 3RD EDITION

—by John Fike & George Friend/ rev, by Stephen J. Bigelow
...320 pages
This guide explores how conventional telephone systems operate and how digital systems replace them. Introduces state of the art speech circuits, dialing, ringing and central office electronics. It dissects modems and digital techniques transmissions; studies microcomputer and cellular phones.

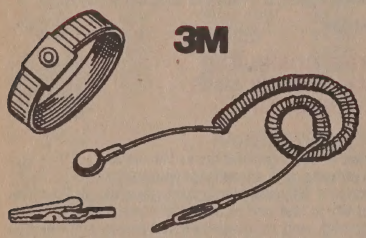
27350.....**$23.95**

HEAT SHRINKABLE TUBING

FP-301 series multi-purpose black flexible polyolefin heat shrinkable tubing has a 2:1 shrink ratio. Rated for -55°C to +135°C (+275°F) and 600V continuous operation.

Part#	Size	10ft.	100ft.
33-129	3/64"	$2.25	$19.90
33-130	1/16"	2.25	19.90
33-131	3/32"	2.25	19.90
33-132	1/8"	2.25	19.90
33-133	3/16"	2.99	27.90
33-134	1/4"	2.99	27.90
33-135	3/8"	3.25	29.90
33-136	1/2"	3.75	34.90
33-137	3/4"	4.99	44.90
33-138	1"	7.50	69.90

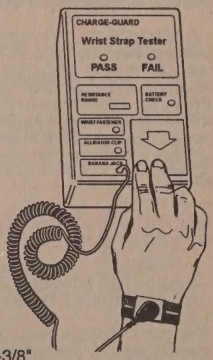
ADJUSTABLE WRIST STRAP



Adjustable wrist strap set includes comfort band, 5ft cord and alligator clip. Silver plated continuous monofilament threads establish a 360° contact zone and a reliable path to ground.

2272.....$9.49

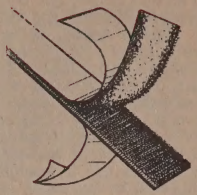
WRIST STRAP TESTER



Mfg. - 3M
Mfg.# - 716
1-3/4" x 4-5/16" x 7-3/8"
Operates on 110 VAC adapter (included) or 4 "AA" cells (not included). Comes with wall mounting plate and complete instructions. Makes it easy to test a wrist strap frequently while wearing it. Pass/fail lamps indicate if strap resistance is within acceptable ranges.

75-130.....$94.95

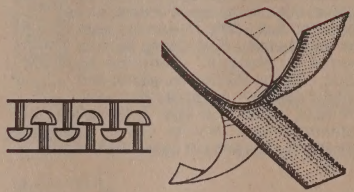
SCOTCHMATE™ HOOK AND LOOP FASTENING SYSTEM



Black
Combination of hundreds of tiny, stiff hooks on one side of closure mesh with a surface of pliable loops on the other provides secure closure. Adhesive backing adheres instantly to most smooth surfaces. Maximum convenience, just press to close, peel to open. 1" wide.

74-416.....12" long.....$1.99
74-417.....4.9 yard long roll.....$26.45

DUAL LOCK™ RECLOSABLE FASTENERS



Black, rubber adhesive back system features mushroom-shaped stems that interlock with one another with audible snap. Five times more holding power than hook & loop system. Self-mating. 1" wide.

74-418.....12" long.....$2.85
74-419.....4.9 yard long roll.....$36.95

BUMPON: PROTECTIVE BUMPERS

Black self-sticking polyurethene bumpers serve as high performance cushions, feet, spacers and protectors.

HEMISPHERE

Part#	Size WxH (in.)	Per Pk/100
85-113	.44 x .20	$4.99
85-114	.63 x .31	$9.99
85-115	.75 x .38	$12.25

TAPERED SQUARE

Part#	Size WxH (in.)	Per Pk/100
85-116	.50 x .12	$4.89
85-117	.50 x .23	$8.99
85-118	.81 x .30	$9.95

DEPRESSED CIRCLE

Part#	Size WxH (in.)	Per Pk/100
85-119	.88 x .4	$16.45

TEMFLEX VINYL ELECTRICAL TAPE

Black.
Suitable for use up to 600V and temperatures up to 80°C (176°F)

28-157.....3/4" x 60' wide.....$ .65

SCOTCH SUPER 33 VINYL PLASTIC ELECTRICAL TAPE

Premium black 7-mil, flame retardant, weather resistant tape. Resists temperature and moisture for splicing.

74-346.....3/4" x 20'.....$1.29
74-347.....3/4" x 66'.....$3.29

SCOTCH™ DOUBLE SIDED FOAM TAPE

1/16" thick
Heavy duty, double sided foam mounting tape is ideal for electronic applications.

33-170.....1/2" wide x 75" long.....$1.75

33-171.....Sixteen 1" squares.....$1.25

SCOTCH™ 22 HEAVY DUTY ELECTRICAL TAPE

High quality, heavy duty 10-mil thick electrical tape. Flame retardant and weather resistant. Offers abrasion resistance and mechanical protection for buss bar insulation.

33-173.....3/4" wide x 108' long.....$5.99

SCOTCH™ 23 RUBBER SHRINK TAPE

"Cold Shrink Tape" Self fusing tape offers maximum protection to cable splices and connection. No adhesive is used. Forms a solid airtight covering. Conforms to any shape. Designed for use as primary insulation on cable splices through 69Kv. 30 mil thickness. 194°F temperature rating. Black.

33-181.....3/4" wide x 30' long.....$7.99

SCOTCH™ SEMI-CONDUCTING ELECTRICAL TAPE

High quality, heavy duty 10 Mil 30-mil electrical tape can be used on cables whose overload temperatures can reach 266°F. Designed for smoothing stresses in cable splices and terminations.

33-174.....3/4" wide x 15' long.....$6.99

3M CRIMP TERMINALS

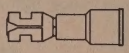
NON-INSULATED FEMALE TERMINAL

Part#	AWG	Tab	50pcs	100pcs	500pcs
74-458	22-18	.25	$3.45	$6.20	$22.50
74-459	16-14	.25	3.45	6.20	22.50
74-460	12-10	.25	4.50	8.50	32.50

NON-INSULATED MALE TERMINAL

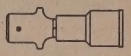
Part#	AWG	Tab	50pcs	100pcs	500pcs
74-466	22-18	.25	$3.45	$6.20	$22.50
74-467	16-14	.25	3.45	6.20	22.50

VINYL INSULATED FEMALE TERMINAL



Part#	AWG	Color	Tab	50pcs	100pcs	500pcs
74-461	22-18	Red	.187	$6.50	$12.00	$42.50
74-462	22-18	Red	.25	6.50	12.00	42.50
74-463	16-14	Blue	.187	6.50	12.00	42.50
74-464	16-14	Blue	.25	6.50	12.00	42.50
74-465	12-10	Yellow	.25	7.00	13.00	45.00

VINYL INSULATED MALE TERMINAL

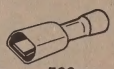


Part#	AWG	Color	Tab	50pcs	100pcs	500pcs
74-468	22-18	Red	.187	$6.50	$12.00	$42.50
74-469	22-18	Red	.25	6.50	12.00	42.50
74-470	16-14	Blue	.187	6.50	12.00	42.50
74-471	16-14	Blue	.25	6.50	12.00	42.50
74-472	12-10	Yellow	.25	7.00	13.00	45.00

FULLY INSULATED NYLON FEMALE DISCONNECT

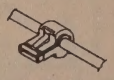
Part#	AWG	Color	50pcs	100pcs	500pcs
74-450	22-18	Red	$9.50	$18.00	$65.00
74-451	16-14	Blue	9.50	18.00	65.00
74-452	12-10	Yellow	12.00	23.00	85.00

FULLY INSULATED NYLON MALE DISCONNECT



Part#	AWG	Color	50pcs	100pcs	500pcs
74-453	22-18	Red	$9.50	$18.00	$65.00
74-454	16-14	Blue	9.50	18.00	65.00
74-455	12-10	Yellow	12.00	23.00	85.00

T-TAP CONNECTORS



Insulation displacement connectors are used to quickly connect a female tap to a through wire and insulate the connection. Female tap males with standard .25" male tab connector. Just squeeze - provides fast dependable electrical tap without wire stripping.

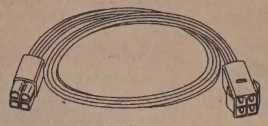
Part#	AWG	Tab	50pcs	100pcs	500pcs
74-444	22-18	Red	$7.00	$13.00	$60.00
74-445	18-14	Blue	7.00	13.00	60.00
74-446	12	Yellow	8.00	15.00	70.00

VINYL INSULATED BUTT CONNECTORS

Part#	AWG	Tab	50pcs	100pcs	500pcs
74-447	22-18	Red	$6.50	$12.00	$42.50
74-448	16-14	Blue	6.50	12.00	42.50
74-449	12-10	Yellow	8.00	15.00	60.00

ROUND MULTI-PIN HARNESS

12" - 18 AWG wire harness with color coded leads and locking mating ends to assure proper connection.



2 PIN

52-127.....$1.29

3 PIN

52-120.....$1.59

4 PIN

52-121.....$2.04

6 PIN

52-122.....$2.14

9 PIN

52-123.....$3.49

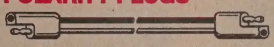
12 PIN

52-124.....$4.29

15 PIN

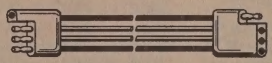
52-125.....$4.89

POLARITY PLUGS



2 pin molded connector. 12" red & black leads. Keyed for correct hook-up every time.

52-107.....10 AWG.....$1.75
52-108.....18 AWG.....$1.25

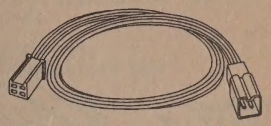


4 pin molded connector
12" leads, one each of white, green, brown and yellow. Keyed for correct hook-up every time.

52-109.....18 AWG.....$1.99

MULTI-PIN HARNESS

Color-coded wire loop. Approximately12" - 18 AWG leads.



2 PIN

52-112..... .25" terminals.....$ .89

3 PIN

52-113..... .25" terminals.....$1.04

3 PIN

52-114..... .11" terminals.....$1.04

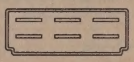
4 PIN

52-115..... .11" terminals.....$1.25

4 PIN

52-128..... .25" terminals.....$1.25

6 PIN

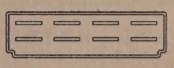


52-116..... .25" terminals.....$1.55

6 PIN

52-117..... .11" terminals.....$1.55

8 PIN



52-118..... .25" terminals.....$2.19

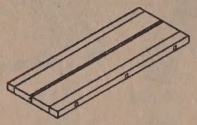
9 PIN

52-119..... .11" terminals.....$2.19

SOLDERLESS BREAD-BOARDS

Features ABS plastic body. Nickel plated phosphor bronze contacts. Contact resistance less than 1 milliohm @ 1kHz. Tested for over 10,000 cycles. Snap lock molded dovetail for combining multiple boards. Suitable for 19-29 AWG wire and all DIP size components.

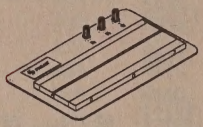
830 TIE POINT



Mainboard:
6.5" x 2.2" x .4"
2 distribution strips
1 terminal strip

	(1-49)	(50-Up)
42-103	$5.49	$5.25

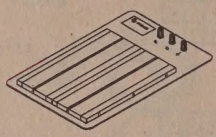
830 TIE POINT



Mainboard:
6.5" x 2.2" x .4"
2 distribution strips
1 terminal strip &
3 binding posts

	(1-49)	(50-Up)
42-104	10.95	9.95

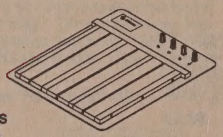
1660 TIE POINT



Mainboard:
6.5" x 4.4" x .4"
4 distribution strips
2 terminal strips &
3 binding posts

	(1-19)	(20-Up)
42-105	16.95	15.95

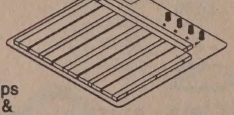
2390 TIE POINT



Mainboard:
7.0" x 6.5" x .4"
5 distribution strips
3 terminal strips &
4 binding posts

	(1-19)	(20-Up)
42-106	22.95	21.50

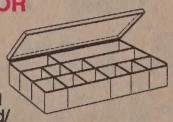
3220 TIE POINT



Mainboard:
7.4" x 7.5" x .4"
7 distribution strips
4 terminal strips &
4 binding posts

	(1-19)	(20-Up)
42-107	29.95	28.50

WIRE JUMPERS FOR BREADBOARDS



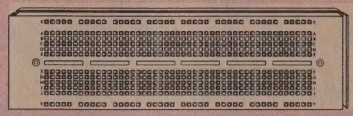
25 each of lengths.
1 through 5 (14 sizes)
350 assorted lengths and
in 13 colors. Pre-stripped/
pre-formed 22 AWG soild wire jumpers. Handy durable clear plastic case.

42-146.....$10.95

FUNCTION BLOXS

Breadbloxs are perfect for prototyping and as an educational tool. All interlock to make electronic circuit design easy. Units utilizes surface mount technology for their small 2" x 3" x 1" size and weight (under 2 oz.). Also provides shorter lead lengths minimizing lead capacitance. Function bloxs are only compatible with our 42-178 breadboard.

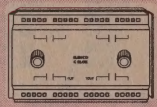
BREADBOARD CIRCUIT BOARD



Designed to be used with the function "bloxs" below. Board has 550 tie points including 2 power bus lines. Expandable through the interlocking feature.

42-178.....$7.79

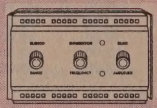
CAPACITOR DECADE BLOX



Provides 20 of the most popular capacitors from 47pF to 10 mfd at 50 volt (10% tolerance) except 10 mfd which is 35 volt.

42-175.....$16.95

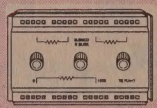
FUNCTION GENERATOR BLOX



Provides sine, sawtooth and square waves from 1 Hz to 1 MHz in 6 ranges with AM or FM modulation capability. Requires 42-179 power blox or any +5V & -5V power supply.

42-176.....$27.95

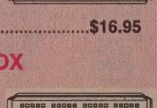
RESISTOR DECADE BLOX



Provides 20 of the most popular resistors from 47 ohm to 1 meg. Includes 100K variable pot.

42-174.....$16.95

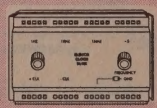
DIGITAL CLOCK BLOX



Provides pulses from 1 Hz to over 50 MHz. Includes crystal locking capability. All outputs have typical rise times of 13 nanoseconds and are capable of driving 10 LS-TTL loads. Requires 42-179 power blox or any 5V power source.

42-177.....$23.95

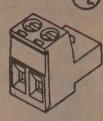
LOGIC BLOX



Provides complete logic probe with four logic level indicators, TTL / CMOS selectable. This state of the art component interlocks with other function blox.

42-197.....$29.95

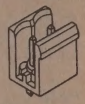
EUROSTYLE® PLUGGABLE PC BOARD TERMINAL BLOCK



.197" / 5mm centers.
1 x 1mm square pins
12 amp @ 250 VAC. Single mold construction. Funnel shaped wire entry. Wire ready cage clamps. Double captive screws to prevent loss or removal. Two piece system for PC boards.

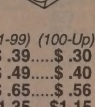
STANDARD PLUG

		(1-99)	(100-Up)
74-518	2 position	$ .99	$ .75
74-519	3 position	$1.45	$ .99
74-520	4 position	$1.75	$1.25
74-521	8 position	$3.50	$2.49



VERTICAL

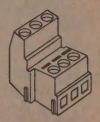
		(1-99)	(100-Up)
74-523	2 position	$ .39	$ .30
74-525	3 position	$ .49	$ .40
74-527	4 position	$ .65	$ .56
74-529	8 position	$1.35	$1.15



90°

		(1-99)	(100-Up)
74-522	2 position	$ .39	$ .30
74-524	3 position	$ .49	$ .40
74-526	4 position	$ .65	$ .56
74-528	8 position	$1.35	$1.15

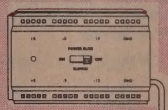
MODULAR TERMINAL BLOCKS FOR PC BOARDS

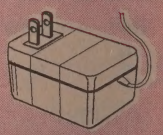


5mm pitch
One piece terminal blocks attach to form PC terminal strip. Rated 17.5 amp, 250V max. For 14-30 AWG wire. Each pole has two soldering pins. Body - Polyamide 6/6 (UL94VO) clamping body, tin plated brass, screws - nickel plated brass. Green.

74-514	2 position	$ .99
74-515	3 position	$1.45

REGULATED POWER BLOX





Regulated
+ 5 VDC @ 1 amp
- 5 VDC @ .4 amp
+12 VDC @ .3 amp
Fully regulated power supply. Snaps into our 42-178 breadboard above. Has current limiting. Load regulation is better than 100 mV and max ripple is .005V RMS.

42-179.....$18.25

STACKABLE TERMINAL STRIP

.197" / 5mm pitch
Rated 10 amp @ 250 VAC
Accepts 22-16 AWG wire. Tin plated brass terminals. Stackable for any number of contacts.

Vertical mount
10mm height
low profile

		(1-99)	(100-Up)
74-516	2 position	$ .34	$ .29
74-517	3 position	$ .45	$ .41

45° entry
15.5mm height

		(1-99)	(100-Up)
74-482	2 position	$ .34	$ .29
74-483	3 position	$ .45	$ .41

90° entry
15.5mm height

		(1-99)	(100-Up)
74-480	2 position	$ .34	$ .29
74-481	3 position	$ .45	$ .41

SUBMINIATURE TERMINAL BLOCKS

Mfg. - AUGAT
Vertical mount
20 amp @ 300V. Accepts stranded and multiple wires up to 12 AWG. Maintains .2" (5.08mm) center to center spacing when installed end to end. Springloaded wire protection.

2 position
Mfg.# - 2MV-02
.4"L x .5"H, .2" spacing

	(1-99)	(100-Up)
74-533	$ .34	$ .29

3 position
Mfg.# - 3MV-02
.6"L x .5"H, .2" spacing

	(1-99)	(100-Up)
74-534	$ .45	$ .41

FOUR POLE EUROSTRIPS

1.2"L x .6"W x .46"H
.32"(8mm) centers, 12 AWG
Closed back strips. Mounting holes between every circuit. Recessed screw terminals. Rated 380 VRMS. Color black.

21-349.....4 pole.....$ .49

JUMPERS

3/8" centers for above barrier blocks

Part#	Contacts	Price
74-264	2	.39
74-265	3	.49
74-266	4	.51
74-267	5	.61
74-268	6	.78

Part#	Contacts	Price
74-274	1	$ .11

74-269	2	.53
74-270	3	.65
74-271	4	.77
74-272	5	.82
74-273	6	1.06

TRI-BARRIER BLOCK

Mfg. - AUGAT (RDI)
Right angle
Accepts 18-22 AWG wire

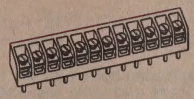
Mfg.# - 6PCR-04
1-9/16" x 3/4" x 9/16"
Rated 20 amp @ 300 volt

74-531.....4 POSITION.....$ .85

Mfg.# - 3PCR-06
1-9/16" x 1/2" x 9/16"
Rated 5 amp @ 150 volt

74-530.....6 POSITION.....$ .85

TRI-BARRIER TERMINAL BLOCKS



Mfg. - AUGAT/RDI
20A @ 300V. Printed circuit terminals with flat block style. Vertical mount. 6-32 wire clamp screws. Accepts 12-18 AWG wire, .375" pitch

Mfg.# - 6PCV-8
3-1/16" x 11/16" x 5/8"

74-511.....8 POSITION.....$ .75

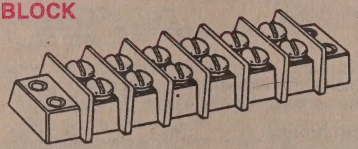
Mfg.# - 6PCV-12
4-9/16" x 11/16" x 5/8"

74-443.....12 POSITION.....$2.25

Mfg.# - 6PCV-22
8-5/16" x 11/16" x 5/8"

74-510.....22 POSITION.....$1.65

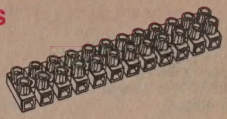
DUAL ROW BARRIER BLOCK



20 amp, 3/8" terminal centers, .44" high. Low barrier, closed back. Thermoplastic. UL recognized 250V commercial equipment. 14-22 AWG wire size. #6-32 steel nickel plated screws.

Part#	Sections	Length	(1-99)	(100-Up)
3000-2	2	1.41"	$ .39	$ .36
3000-3	3	1.78"	.49	.45
3000-4	4	2.16"	.65	.60
3000-6	6	2.91"	.99	.90
3000-8	8	3.66"	1.25	1.15
3000-10	10	4.41"	1.50	1.35
3000-12	12	5.16"	1.75	1.65
3000-16	16	6.66"	2.35	2.09
3000-20	20	8.16"	2.99	2.79
3000-22	22	8.91"	3.20	2.99
3000-24	24	9.66"	3.60	3.25
3000-26	26	10.41"	3.99	3.60
3000-28	28	11.16"	4.39	3.99
3000-30	30	11.91"	4.95	4.50

EUROSTRIPS



12 pole white nylon Eurostrip. Mounting holes between every circuit. Recessed screw terminals.

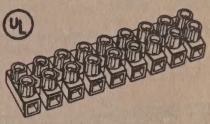
3-3/4"L x 5/8"W x 1/2"H
.32" (8mm) centers • 18-12 AWG

21-351.....12 pole.....$1.75

4-5/8"L x 13/16"W x 5/8"H
.39" (10mm) centers • 18-12 AWG

21-352.....12 pole.....$1.75

EURO STYLE BARRIER BLOCKS



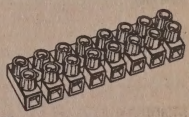
Mfg. - BEAU
12 pole white nylon can be cut to size. Recessed screw terminals.

10 amp
.315"(8mm) centers • 18-12 AWG
21-335.....3.693" long.....$2.35

10 amp
.394"(10mm) centers • 18-12 AWG
21-336.....4.587" long.....$2.44

15 amp
.472"(12mm) centers • 8-14 AWG
21-337.....5.12" long.....$3.99

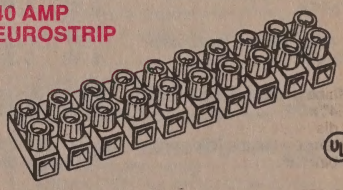
8 POLE EUROSTRIP



Mfg. - BUCHANAN
3" x 7/8' x 5/8"
8 pole, **10 amp**, 500 volt
.394" (10mm) centers • 18-12 AWG
Recessed screw terminals

21-353.....$1.45

40 AMP EUROSTRIP



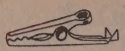
Mfg. - BUCHANAN
5-3/4" x 1-1/4 x 7/8"
5/8" (15mm) centers • 8 AWG
40 amp, 500 volt
Recessed screw terminals

4 POLE
21-355.....$2.49

10 POLE
21-354.....$5.95

12 POLE
21-356.....$8.95

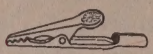
SOLDER CONNECTION



Clip length - 1-3/32"
Jaw opening - 3/16"
#20 AWG wire or smaller
5 Amp

	(1-99)	(100-Up)
Plated steel 52-30	$ .20	$ .19
Solid copper 52-30C	$ .25	$ .19

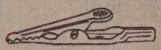
ALLIGATOR CLIP



Clip length - 1-1/2"
Jaw opening - 3/16"
#20 AWG wire or smaller
5 Amp
Has solder or crimp barrel tail. Plated steel.

	(1-99)	(100-Up)
52-30BL	$ .20	$ .18

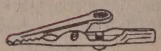
FOR BANANA PLUG



Clip length - 2"
Jaw opening - 5/16"
I.D. - .161"
5 Amp
Has small lip for soldering. Plated steel.

	(1-99)	(100-Up)
52-60	$ .25	$ .22

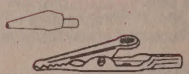
SCREW CONNECTION



Clip length - 2"
Jaw opening - 5/16"
6-40 set screw
5 Amp

	(1-99)	(100-Up)
Plated steel 52-60S	$ .32	$ .28
Solid copper 52-60CS	$ .48	$ .44

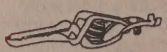
COMPLETELY INSULATED FOR WIRE OR BANANA PLUG



Clip length - 2-1/4"
Jaw opening - 5/16"

	(1-99)	(100-Up)
5 Amp - Red-Plated steel 52-63R	$ .62	$ .58
5 Amp - Black-Plated steel 52-63B	$ .62	$ .58
10 Amp - Red-Solid copper 52-63CR	$ .69	$ .65
10 Amp - Black-Solid copper 52-63CB	$ .69	$ .65

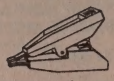
CROCODILE CLIPS



Clip length - 2-1/8"
Jaw opening - 5/16"
10 Amp
Solid contact along entire length of jaw. 6-40 brass set screw.

	(1-99)	(100-Up)
Plated steel 52-85	$ .37	$ .34
Solid copper 52-85C	$ .60	$ .54

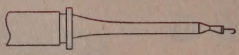
KELVIN CLIP



Clip length - 2-5/8"
Jaw opening - 5/16"
Used for 4-wire resistance measurement systems. Jaws are electrically isolated when open, shorted when closed. Contacts copper/silver handles.

	(1-9)	(10-Up)
52-75K	$7.50	$6.99

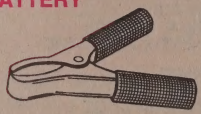
"CLIPPER" PLUNGER TEST CLIPS



Spring loaded hook attaches to fragile component leads and terminals while trouble shooting. Designed for connection to components up to .06" dia BeCu contacts.

BU-00202-0	2-1/2" Black	$1.49
BU-00202-2	2-1/2" Red	$1.49
BU-00203-0	3-1/2" Black	$1.79
BU-00203-2	3-1/2" Red	$1.79

PLIER-TYPE BATTERY CLIPS



50 amp copper
Crimp or solder
Popular for trickle chargers

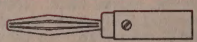
BU-46A-0	Black	$ .99
BU-46A-2	Red	$ .99

TAPERED HANDLE BANANA PLUG

Through hole design location for wire. Insulator unscrews for access to wire connection. For standard wire up to 18 AWG.

BU-00246-0	Red	$ .69
BU-00246-2	Black	$ .69

BANANA PLUG WITH SET SCREW



Set screw holds wire up to 18 AWG. Insulator will not separate from banana plug.

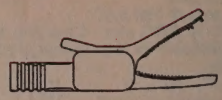
BU-00245-0	Black	$ .69
BU-00245-2	Red	$ .69

HEAVY DUTY STEEL CLIP

25 AMP
For battery operated equipment, charger and trouble lights. Rugged teeth on one jaw fits precisely into opposing notches to stand on battery posts. 8-32 screws connection for wire.

BU-24A	$ .85

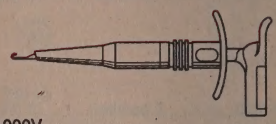
INSULATED PLUG-ON SAFETY CROCODILE CLIP



34 AMP • 1000V • Fully insulated 3/4" jaw opening, 3-1/4" length accepts standard banana plugs. Features a sharp tooth in the lower jaw.

BU-65-0	Black	$3.89
BU-65-2	Red	$3.89
BU-65-6	Blue	$3.89
BU-65-4	Yellow	$3.89

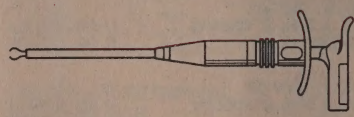
RIGHT ANGLE INSULATED PLUNGER HOOK CLIP



3 AMP • 1000V
Two tools in one, a BeCu contact hook and a probe tip with the plunger retracted. Hook extends .41"(10mm). 4mm insulated R/A banana jack.

BU-20431-0	Black	$6.99
BU-20431-2	Red	$6.99

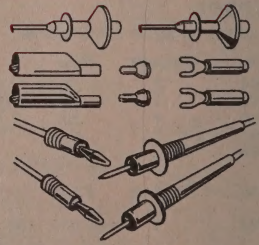
RIGHT ANGLE INSULATED PLUNGER CLAMP CLIP



7-1/4" long • 1000V
Reach into narrow passages with the highly flexible tip. Grip and hold solder leads, pins and wire up to .2"(5mm) dia. Use the clamp when soldering, the silicon insulation resists the heat. 4mm insulated R/A banana jack.

BU-20433-0	Black	$8.99
BU-20433-2	Red	$8.99

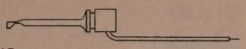
DELUXE MULTIMETER TEST LEAD KIT



One set of 52-2641; and 1 red and 1 blk: "clippers", spade lug, insulator extension for test prod, insulated alligator boot.

	(1-9)	(10-Up)
52-3917	$13.99	$13.49

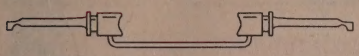
"CLIPPER"



36" long / 20 AWG
2-1/2" clip, clips up to .06" dia.

		(1-24)	(25-Up)
52-1149-0	BLACK	$2.99	$2.75
52-1149-2	RED	2.99	2.75

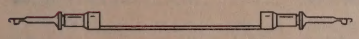
"MINI-CLIPPER"



36" long / 20 AWG
1-3/4" clip, clips up to .06" dia.

		(1-24)	(25-Up)
52-1010-0	BLACK	$3.97	$3.69
52-1010-2	RED	3.97	3.69

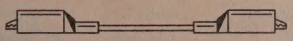
"MICRO-CLIPPER"



36" long / 20 AWG
1-3/4" clip, Clips up to .025"

		(1-24)	(25-Up)
52-1414-0	BLACK	$4.75	$4.49
52-1414-2	RED	4.75	4.49

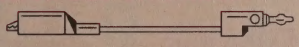
ALLIGATOR CLIPS



36" long / 20 AWG
5/16" jaw opening

		(1-24)	(25-Up)
52-3030-0	BLACK	$2.39	$2.19
52-3030-2	RED	2.39	2.19

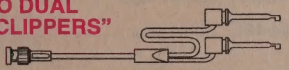
ALLIGATOR CLIP TO BANANA PLUG



36" long / 20 AWG

		(1-24)	(25-Up)
52-2030-0	BLACK	$3.92	$3.69
52-2030-2	RED	3.92	3.69

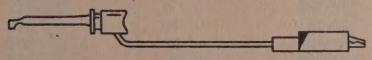
BNC TO DUAL "MINI-CLIPPERS"



36" long, (24" RG-58)

	(1-9)	(10-Up)
52-1150	$11.99	$11.25

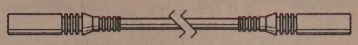
MICRO-PLUNGER CLIP TO INSULATED MINI-ALLIGATOR CLIP



The spring-load hook of the Micro-Plunger makes firm but gentle attachment to component leads. The steel plated insulated alligator clip has a 3/16" jaw opening. Hook-up wire is #20 AWG tinned copper with 105° PVC insulation. 36" long.

BU-1031A-0	Black	$3.95
BU-1031A-2	Red	$3.95

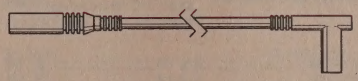
SHIELDED BANANA PLUG TO SHIELDED BANANA PLUG



39" long • 1000V
Insulated banana plugs have exclusive free rotation, nine-leaf beryllium copper, nickel-plated cage springs protected by rigid plastic sleeves. A constant positive contact with minimum resistance is provided by the plugs. Silicone molded housing.

BU-6161-0	Black	$7.75
BU-6161-2	Red	$7.75

RIGHT ANGLE SHIELDED BANANA PLUG TO SHIELDED BANANA PLUG



39" long • 1000V
R/A Insulated banana plugs have exclusive free rotation, nine-leaf beryllium copper, nickel-plated cage springs protected by rigid plastic sleeves. A constant positive contact with minimum resistance. Silicone molded housing.

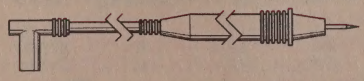
BU-6162-0	Black	$7.75
BU-6162-2	Red	$7.75

SHIELDED BANANA PLUG TO SAFETY TEST PROD

5-1/4" prod • 39" long • 1000V
Instrument end features a insulated nine-leaf cage spring 4mm banana plug. Probe end has a stainless steel tip with 8-32 UNC thread to accept accessories. Silicone molded housing.

BU-4061-0	Black	$7.75
BU-4061-2	Red	$7.75

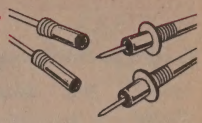
SHIELDED RIGHT ANGLE BANANA PLUG TO SAFETY TEAT PROD



5-1/4" prod • 39" long • 1000V
Instrument end features a 90° right angle nine-leaf cage spring 4mm insulated shielded banana plug. Probe end has a stainless steel tip with 8-32 thread to accept accessories. Silicone molded housing.

BU-4062-0	Black	$7.75
BU-4062-2	Red	$7.75

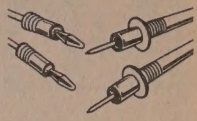
MULTIMETER TEST LEAD SET



48" long / 18 AWG
1 black / 1 red
Shielded banana plug

	(1-9)	10-Up)
52-2141-D	$9.99	$9.49

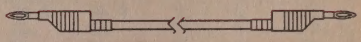
MULTIMETER TEST LEAD SET



48" long / 18 AWG
1 black / 1 red
Standard banana plug

	(1-9)	(10-Up)
52-2641-D	$9.99	$9.49

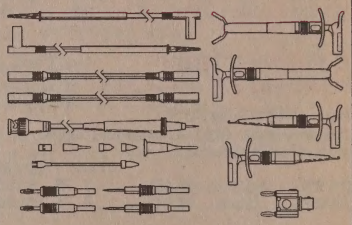
ULTRA FLEXIBLE BANANA PLUG TO BANANA PLUG



Ultra-Flex test leads are laboratory grade test leads with superior performance and longer life. Pure silicone rubber insulation is rated for -122°F to 302°F at 16 amp max. Features stackable banana plug/jack at each end for multiple outputs from one source. Nickel plated brass connector housed in PVC. The nine-leaf spring is nickel plated beryllium copper.

BU-2929-100	9.8" Black	$4.65
BU-2929-102	9.8" Red	$4.65
BU-2929-390	39.4" Black	$6.25
BU-2929-392	39.4" Red	$6.25

ELECTRONIC LAB TEST KIT



Deluxe 21-pc test kit.
Features a complete variety of test leads.
A great addition to any test bench.

- Red & Black variable length test prod to shielded banana plug.
- Adapter - BNC female to double banana plug.
- Red & Black insulated banana jack to standard banana plug.
- Red & Black right angle insulated plunger with jaw clip.
- Red & Black insulated plug-on test prod.
- Red & Black right angle insulated plunger hook clip.
- Red & Black shielded banana plug on both ends.
- Monolithic oscilloscope probe kit.

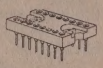
KT-39434 ..... $79.95

SOLDER TAIL DIP IC SOCKETS

Economy general purpose sockets.

Part#	Pins	Width	(1-99)	(100-Up)
21-265	8	.3"	$ .08	$ .07
21-266	14	.3"	.08	.07
21-267	16	.3"	.08	.07
21-268	18	.3"	.10	.09
21-269	20	.3"	.11	.10
21-270	22	.4"	.08	.07
21-221	24	.3"	.18	.17
21-271	24	.6"	.12	.11
21-272	28	.6"	.13	.12
21-273	32	.6"	.15	.14
21-276	40	.6"	.19	.17

MACHINE PIN DIP IC SOCKETS



Machined-contact sockets provide lower contact resistance and greater retention.

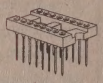
Part#	Pins	Width	(1-99)	(100-Up)
21-104	8	.3"	$ .40	$ .35
21-131	14	.3"	.45	.40
21-118	16	.3"	.45	.42
21-123	18	.3"	.50	.46
21-142	20	.3"	.50	.46
21-103	22	.4"	.55	.49
21-124	24	.3"	.60	.54
21-119	24	.6"	.60	.54
21-308	28	.3"	.65	.59
21-121	28	.6"	.65	.59
21-192	32	.6"	.75	.59
21-120	40	.6"	.75	.69

WIRE WRAP DIP IC SOCKETS

Allows multiple connections per pin.

Part#	Pins	Width	Level	(1-99)	(100-Up)
21-236	14	.3"	2	$ .49	$ .45
21-254	18	.3"	2	.49	.45

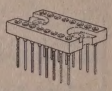
GOLD WIRE WRAP MACHINE PIN SOCKETS



Mfg. - PRECICONTACT
2 level socket. Gold contact, gold sleeve.
High reliability socket

		(1-99)	(100-Up)
21-313	14 pin	$ .75	$ .60
21-314	16 pin	$ .75	$ .60

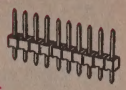
MACHINE PIN WIRE WRAP IC SOCKETS



Part#	Pins	Width	Level	Price
21-172	14	.3"	2	$ .75
21-173	14	.3"	3	.75
21-220	16	.3"	2	.85
21-174	16	.3"	3	.85
21-176	16	.6"	3	.85
21-180	18	.3"	3	.99
21-177	18	.6"	3	.99
21-181	22	.3"	3	1.09
21-183	24	.3"	3	1.49
21-184	24	.6"	3	1.35
21-185	28	.6"	2	1.65
21-186	36	.6"	3	1.75
21-187	40	.6"	2	1.49

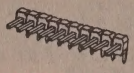
SINGLE ROW HEADERS

.1" centers
.025" square posts
Snappable headers



STRAIGHT

21-295	1 x 10	$ .14
21-204	1 x 32	$ .50
21-154	1 x 36	$ .60



RIGHT ANGLE

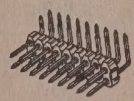
21-163	1 x 36	$ .59
21-305	1 x 40	$ .70

DUAL ROW HEADERS

.1" centers
.025" square posts
Snappable headers

STRAIGHT

21-198	2 x 10	$ .18
21-311	2 x 14	$ .22
21-208	2 x 15	$ .25
21-209	2 x 17	$ .25
21-210	2 x 20	$ .35
21-309	2 x 22	$ .38
21-212	2 x 32	$ .50
21-257	2 x 36	$ .55
21-278	2 x 40	$ .60



RIGHT ANGLE

21-282	2 x 8	$ .18
21-304	2 x 10	$ .20
21-310	2 x 17	$ .25
21-283	2 x 19	$ .28
21-294	2 x 30	$ .49
21-281	2 x 31	$ .50
21-279	2 x 36	$ .60
21-280	2 x 40	$ .75

SHORTING JUMPERS

Shorting socket jumper to mate with headers above. Mates to .025" square posts on .100" centers. Open on top to allow for a test point. Black.

		(1-99)	(100-999)	(1K-Up)
21-165		$ .11	$ .10	$ .07

WIRE WRAP MACHINE PIN IC SOCKETS WITH INTEGRAL DECOUPLING CAPACITOR

Low profile, 2 level
.1 µF mono.

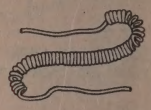
Price	No. of Pins	Price
21-338	14 pin	$ .99
21-339	16 pin	.99
21-340	20 pin	.99

CLAMP-ON FERRITE FILTER

Mfg. - STEWARD
Mfg.# - 28A2029-0A2
1-1/4" x 15/16", Black
Clamps on to 3/8"dia round cable. provides excellent common mode EMI suppression. great for network cables. 209 ohm impedance @ 100 mHz.

80-283	$1.75

MICROPHONE CABLE

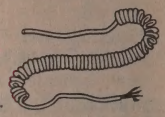


6 wires
(5 plus a shield). Length - 6ft (extended) OD - .24", pliable gray rubber jacket. Color code white, black, green, red and brown.

		(1-99)	(100-Up)
36-145		$1.75	$1.59

MICROPHONE CORD

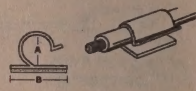
New



6ft extended
3 conductors with shield (red, black & white).
Vinyl jacket.

B3WMC	OD - .26"	$1.75

KWIK-KLIP



A - 3/16"
B - 3/4"

Cable clamp for wire bundles up to 3/16" diameter. Peel-N-Stick self adhesive back for easy mount. Non-latching - gray

74-220	$ .12

EXTRA WIDE EXTRA LONG ELECTRICAL TAPE

1-1/4" X 144ft
Premium black flame retardent, weather resistant tape.

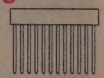
28-161	$1.25

MACHINE PIN SIP SOCKETS

.1" spacing, low profile
Snappable with one pin loss

Part#	Pins	Price
21-152	5	$ .10
21-153	7	.12
21-219	8	.17
21-151	10	.20
21-128	16	.30
21-299	30	.75
21-274	32	.75

WIRE WRAP SIP SOCKETS



Mfg. - ROBINSON NUGENT
2-1/2"L x 3/16"W x 1/4"T
.1" spacing, 5/8" lead length.

21-284	25 pin	$ .35

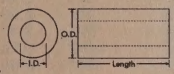
PAN HEAD MOLDED NYLON SCREWS

High quality screws constructed of durable non-conductive, non-corrosive type 6/6 nylon (UL 94V-2). .062" thick

Part#	Thread	Length(in)
28-123	4-40	1/4
28-124	4-40	3/8
28-125	4-40	1/2
28-126	4-40	3/4
28-127	4-40	1
28-128	6-32	1/4
28-129	6-32	3/8
28-130	6-32	1/2
28-131	6-32	3/4
28-132	6-32	1
28-133	8-32	1/4
28-134	8-32	3/8
28-135	8-32	1/2
28-136	8-32	3/4
28-137	8-32	1

	(1-Up)	(100-Up)	(1K-Up)
Price	$ .10	$ .04	$ .025

STANDARD SPACERS

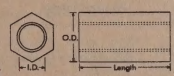


High quality round standard spacers constructed of durable non-conductive, non-corrosive type natural 6/6 nylon (UL 94V-2). 1/4" outside diameter.

Part#	Thread	Length(in)
28-032	4-40	1/8
28-040	4-40	1/4
28-056	4-40	1/2
28-072	4-40	3/4
28-088	4-40	1
28-033	6-32	1/8
28-041	6-32	1/4
28-057	6-32	1/2
28-073	6-32	3/4
28-089	6-32	1
28-034	8-32	1/8
28-042	8-32	1/4
28-058	8-32	1/2
28-074	8-32	3/4
28-090	8-32	1

	(1-Up)	(100-Up)	(1K-Up)
Price	$ .10	$ .05	$ .03

TAPPED HEX SPACERS



High quality tapped hex spacers constructed of durable non-conductive, non-corrosive type 6/6 nylon (UL 94V-2). 1/4" outside diameter.

Part#	Thread	Length(in)
28-144	4-40	1/4
28-145	4-40	1/2
28-146	4-40	3/4
28-147	4-40	1
28-148	6-32	1/4
28-149	6-32	1/2
28-150	6-32	3/4
28-151	6-32	1
28-152	8-32	1/4
28-153	8-32	1/2
28-154	8-32	3/4
28-155	8-32	1

	(1-Up)	(100-Up)	(1K-Up)
Price	$ .25	$ .20	$ .15

"RAPPERS®" RE-USABLE TIE WRAP

1/2" wide x 12" long, black. Unique velcro type wrap. One side has hooks and the other has loops. Front adheres to the back. Very strong and re-usable. Can be cut to desired length.

74-393.....$ .99

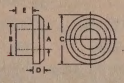
COLORED "RAPPERS®" RE-USABLE TIE WRAP

3/4" wide x 12" long
Colored assortment includes:
2-Black 1-Green
1-White 1-Red
1-Grey 1-Blue
1-Beige 1-Orange
1-Yellow

Unique velcro type wrap has hooks on one side and loops on the other. Front adheres to the back. Very strong and re-usable.

74-420.....pk10/$9.99

BEVEL HEADED SHOULDER WASHER

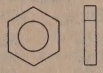


High quality washers constructed of durable non-conductive, non-corrosive type natural 6/6 nylon (UL 94V-2).

	Screw Size				
Part#	A	B	C	D	E
28-158	4	.187	.281	.04	.04
28-159	6	.218	.327	.04	.04
28-160	8	.250	.375	.05	.05

	(1-Up)	(100-Up)	(1K-Up)
Price	$ .10	$ .04	$ .025

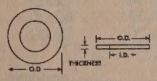
HEX NYLON NUTS



High quality nuts constructed of durable non-conductive, non-corrosive type 6/6 nylon (UL 94V-2).

Part#	Size	(1-Up)	(100-Up)	(1K-Up)
28-141	4-40	$ .10	$ .04	$ .025
28-142	6-32	$ .10	$ .04	$ .025
28-143	8-32	$ .10	$ .04	$ .025

STANDARD NYLON FLAT WASHERS

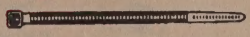


High quality washers constructed of durable non-conductive, non-corrosive type 6/6 nylon (UL 94V-2). .062" thick

Part#	Screw Size	ID	OD
28-138	4	.115	.25
28-139	6	.14	.312
28-140	8	.171	.375

	(1-Up)	(100-Up)	(1K-Up)
Price	$ .05	$ .02	$ .01

4" CABLE TIES



Self locking
3/4" max bundle diameter. 18 lbs strength

44-132.....Black.....100/$1.00
44-133.....White.....100/$1.00

SELF-ADHESIVE RUBBER FEET

Mfg. - ITW, Color-black
3/8"sq x 3/16" tall

85-124.....12/$ .49

SELF-ADHESIVE RUBBER FEET

Mfg. - ITW, Color-black
7/16" dia. x 7/32" tall

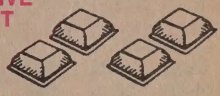
85-136.....50/$1.25

SELF-ADHESIVE RUBBER FEET

Mfg. - 3M
Color - white
1/2" sq. x 1/8" tall

85-109.....12/$ .75

SELF-ADHESIVE RUBBER FEET



Color - black
3/4" sq. x 5/16" tall

SARF1.....12/$1.25

STICK-ON RUBBER FEET

Mfg. - AMATOM
.84" dia x .4" high
Black, depressed circle. 24 to a sheet.

85-125.....24/$1.99

RECESSED BUMPERS

Mfg. - KEYSTONE, #720
O.D. - .5".....Fig. A
Height - .25".....Fig. B
Recess dia. - .25".....Fig. C
Screw circle I.D. - .125"..Fig. E

Screw size - 4. Made of rubber. Excellent traction and shock absorbtion. Without molded-in washer.

	(4 pc)	(100 pc)	(1000 pc)
85-121	$ .24	$5.00	$35.00

7-1/2" COLORED CABLE TIES

7-1/2" x .187"
1/16" - 1-3/4" bundle diameter.
Ideal for construction where lines are color coded.

		1 Pack of 100
44-141	Red	$3.99
44-142	Blue	$3.99
44-143	Green	$3.99
44-144	Yellow	$3.99

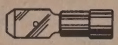
FLUORESCENT

44-145	*Pink*	$4.25
44-146	*Orange*	$4.25

QUICK DISCONNECT FEMALE

Part#	AWG	Color	Tab	50pcs	100pcs	1000pcs
74-280	22-16	RED	.250"	2.50	4.50	32.00
74-281	16-14	BLUE	.250"	2.50	4.50	32.00
74-282	12-10	YELLOW	.250"	3.00	5.50	40.00
74-283	22-16	RED	.187"	2.75	5.00	34.00
74-284	16-14	BLUE	.187"	2.75	5.00	34.00

QUICK DISCONNECT MALE

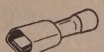


Part#	AWG	Color	Tab	50pcs	100pcs	1000pcs
74-285	22-16	RED	.250"	2.50	4.50	32.00
74-286	16-14	BLUE	.250"	2.50	4.50	32.00
74-287	12-10	YELLOW	.250"	3.00	5.50	40.00
74-288	22-16	RED	.187"	2.75	5.00	34.00
74-289	16-14	BLUE	.187"	2.75	5.00	34.00

FULLY INSULATED QUICK DISCONNECT FEMALE

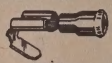
Part#	AWG	Color	Tab	50pcs	100pcs	1000pcs
74-328	22-16	RED	.250"	4.50	8.00	60.00
74-329	16-14	BLUE	.250"	4.50	8.00	60.00
74-330	12-10	YELLOW	.250"	7.00	13.00	105.00

FULLY INSULATED QUICK DISCONNECT MALE



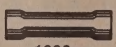
Part#	AWG	Color	Tab	50pcs	100pcs	1000pcs
74-331	22-16	RED	.250"	4.50	8.00	60.00
74-332	16-14	BLUE	.250"	4.50	8.00	60.00
74-333	12-10	YELLOW	.250"	7.00	13.00	105.00

PIGGY BACK FEMALE



Part#	AWG	Color	Tab	50pcs	100pcs	1000pcs
74-290	22-16	RED	.250"	3.00	5.50	40.00
74-291	16-14	BLUE	.250"	3.00	5.50	40.00

BUTT SPLICER



Part#	AWG	Color	Tab	50pcs	100pcs	1000pcs
74-292	22-16	RED		2.50	4.50	32.00
74-293	16-14	BLUE		2.50	4.50	32.00
74-294	12-10	YELLOW		3.25	6.00	42.00

QUICK SPLICE

Part#	AWG	Color	Tab	50pcs	100pcs	1000pcs
74-334	22-16	RED		3.25	6.00	52.00
74-335	18-14	BLUE		3.25	6.00	52.00
74-423	12-10	YELLOW		5.50	10.20	89.00

FULLY INSULATED FEMALE BULLET CONNECTOR

Part#	AWG	Color	Tab	50pcs	100pcs	1000pcs
74-336	22-16	RED		3.25	6.00	52.00
74-337	16-14	BLUE		3.25	6.00	52.00

MALE BULLET CONNECTOR

Part#	AWG	Color	Tab	50pcs	100pcs	1000pcs
74-338	22-16	RED		2.50	4.50	32.00
74-339	16-14	BLUE		2.50	4.50	32.00

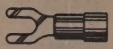
WIRE NUT

Part#	AWG	Color	Tab	50pcs	100pcs	1000pcs
74-325	18-12	YELLOW		2.25	4.00	35.00
74-326	18-10	RED		3.50	6.50	60.00
74-327	22-14	ORANGE		2.75	4.80	30.00

CLOSED END CONNECTOR

Part#	AWG	Color	Tab	50pcs	100pcs	1000pcs
74-340	22-16	WHITE		2.50	4.50	32.00
74-341	16-14	WHITE		2.75	5.00	40.00
74-342	12-10	WHITE		3.00	5.50	48.00

SPADE

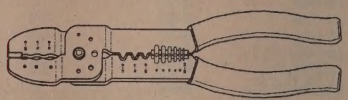


Part#	AWG	Color	Stud	50pcs	100pcs	1000pcs
74-295	22-16	RED	6	2.50	4.50	32.00
74-296	22-16	RED	8	2.50	4.50	32.00
74-297	22-16	RED	10	2.50	4.50	32.00
74-298	16-14	BLUE	6	2.50	4.50	32.00
74-299	16-14	BLUE	8	2.50	4.50	32.00
74-300	16-14	BLUE	10	2.50	4.50	32.00
74-301	12-10	YELLOW	6	3.25	6.00	48.00
74-302	12-10	YELLOW	8	3.25	6.00	48.00
74-303	12-10	YELLOW	10	3.25	6.00	48.00

RING

Part#	AWG	Color	Stud	50pcs	100pcs	1000pcs
74-304	22-16	RED	4	2.50	4.50	32.00
74-305	22-16	RED	6	2.50	4.50	32.00
74-306	22-16	RED	8	2.50	4.50	32.00
74-307	22-16	RED	10	2.50	4.50	32.00
74-308	22-16	RED	1/4"	3.00	5.50	42.00
74-309	22-16	RED	5/16"	3.00	5.50	42.00
74-310	22-16	RED	3/8"	3.00	5.50	42.00
74-311	16-14	BLUE	4	2.50	4.50	32.00
74-312	16-14	BLUE	6	2.50	4.50	32.00
74-313	16-14	BLUE	8	2.50	4.50	32.00
74-314	16-14	BLUE	10	2.50	4.50	32.00
74-315	16-14	BLUE	1/4"	3.00	5.50	42.00
74-316	16-14	BLUE	5/16"	3.00	5.50	42.00
74-317	16-14	BLUE	3/8"	3.00	5.50	42.00
74-318	12-10	YELLOW	6	3.25	6.00	48.00
74-319	12-10	YELLOW	8	3.25	6.00	48.00
74-320	12-10	YELLOW	10	3.25	6.00	48.00
74-321	12-10	YELLOW	1/4"	4.50	8.00	60.00
74-322	12-10	YELLOW	5/16"	4.50	8.00	60.00
74-323	12-10	YELLOW	3/8"	4.50	8.00	60.00
74-324	12-10	YELLOW	1/2"	9.00	17.00	135.00

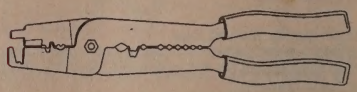
MULTI PURPOSE TOOL



Basic crimp tool for stripping and crimping 22-10 AWG insulated wire and terminals.

54-210.....Heavy Duty.....**$4.95**

MULTI PURPOSE TOOL

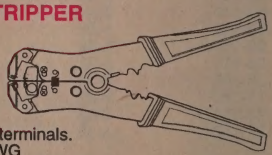


Cuts, strips and crimps 22-10 AWG insulated and non insulated terminals, wires along with distributor terminals & spark plug terminals. For home and auto.

54-211.....**$4.95**

SELF-ADJUSTING WIRE STRIPPER

- Strips
- Crimps
- Cuts



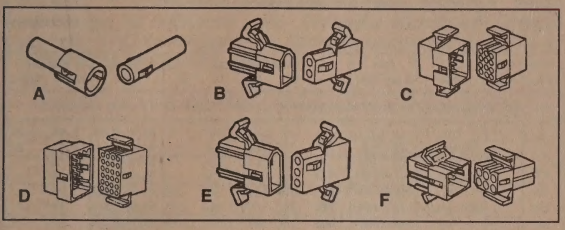
8" length. Automatically strips wire from 26-10 AWG. Crimps insulated terminals. Sharp, precise wire cutter. 22-10 AWG

54-209.....**$9.95**

molex waldom

MULTIPLE CIRCUIT CONNECTOR KITS

- Includes matching male & female polarized nylon connectors.
- Includes complete corresponding pins.
- 250V maximum



WIRE GAUGE 24 - 18 .062" Diameter Pins

Part#	Fig.	No. of Circuits	Pin Layout	Pin Rating	Sets Per Kit	Price
21-317	A	1	Single	5 Amp	5	$3.75
21-318	B	2	1 x 2	5 Amp	3	3.90
21-319	B	3	1 x 3	5 Amp	3	4.55
21-320	B	4	1 x 4	5 Amp	2	5.30
21-321	C	6	3 x 2	5 Amp	2	4.95
21-322	C	9	3 x 3	5 Amp	1	3.25
21-323	C	12	3 x 4	5 Amp	1	3.85
21-324	C	15	3 x 5	5 Amp	1	5.25
21-325	D	24	4 x 6	5 Amp	1	8.00

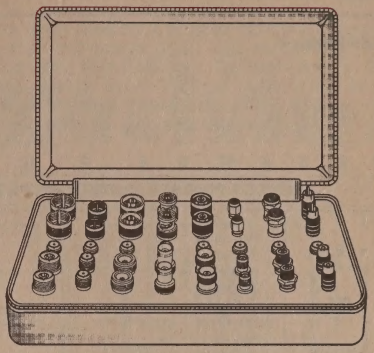
WIRE GAUGE 22 - 18 .093" Diameter Pins

Part#	Fig.	No. of Circuits	Pin Layout	Pin Rating	Sets Per Kit	Price
21-326	A	1	Single	12 Amp	5	$2.07
21-327	A	2	1 x 2	12 Amp	3	2.65
21-328	E	3	1 x 3	12 Amp	3	3.45
21-329	E	4	1 x 4	9 Amp	2	2.80
21-330	E	5	1 x 5	9 Amp	2	3.65
21-331	F	6	3 x 2	9 Amp	2	3.75
21-332	F	9	3 x 3	9 Amp	1	2.95
21-333	C	12	3 x 4	7.5 Amp	1	3.25
21-334	F	15	3 x 5	7.5 Amp	1	3.95

UNIVERSAL CONNECTOR ADAPTER KIT

Gold Plated

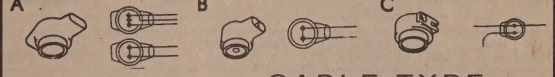
Quickly assemble the exact adapter for any job.



Gold plated, gold contacts and teflon insulation. 40 piece kit includes two each male and female UHF, mini UHF, "N", BNC, TNC, SMA, "F", RCA and 8 universals. Complete with vinyl storage case with zipper.

60-362.....**$124.95**

3M SCOTCHLOK™ CONNECTORS

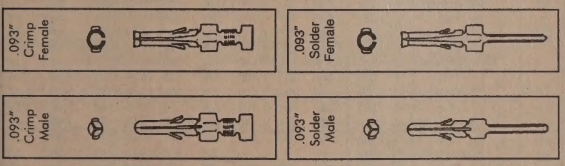


Part#	Fig	Color	Max Insul O.D.mm	CABLE TYPE PIC-Unfilled AWG	PIC-Filled AWG	Pulp or Paper AWG	Price
60-375	A	RED	1.67	19-26	22-26	19-26	$.15
60-378	B	YELLOW	1.52	22-26	22-26	22-26	.13
60-379	C	GREEN	1.67	19-26	22-26	19-26	.17

molex waldom

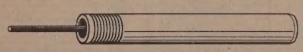
.093" (2.36mm) DIAMETER CRIMP TERMINALS

.093" (2.36mm) mating diameter 12-amp terminals for 03 series connector housings. Crimp or solder tail. Withstands 1500 volts RMS for 60 seconds minimum. .010" (.254mm) tin-plate brass stock.



Part#	Wire Range	Insulation Diameter	Description	Pricing (1-99)	Pricing (100-up)
02-09-2103	14 - 20	.065/.160"	Male Crimp	$ .10	$ .08
02-09-1104	14 - 20	.065/.160"	Female Crimp	.10	.08
02-09-2118	18 - 22	.060/.120"	Male Crimp	.10	.08
02-09-1118	18 - 22	.060/.120"	Female Crimp	.10	.08
02-09-2134	-----	-----	Male Solder	.15	.12
02-09-1134	-----	-----	Female Solder	.15	.12

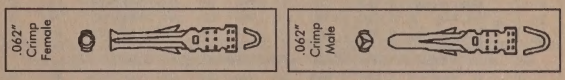
EXTRACTION TOOL



W-HT-2038.....For .093".....**$12.95**
W-HT-2285.....For .062".....**$12.95**

.062" (1.57mm) DIAMETER CRIMP TERMINALS

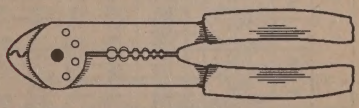
.062" (1.57mm) mating diameter 5-amp terminals for 03 series connector housings. Withstands 1500 volts RMS for 60 seconds minimum. .008" (.203mm) tin-plate brass.



Part#	Wire Range	Insulation Diameter	Description	Pricing (1-99)	Pricing (100-up)
02-06-2103	18 - 24	.060/.120"	Male Crimp	$ .09	$ .07
02-06-1103	18 - 24	.060/.120"	Female Crimp	.09	.07
02-06-2132	24 - 30	.040/.090"	Male Crimp	.09	.07
02-06-1132	24 - 30	.040/.090"	Female Crimp	.09	.07

ORDER HOUSING SEPARATELY ON PAGE 90

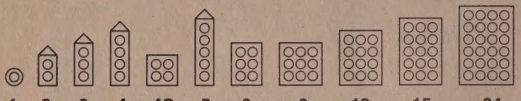
CRIMPING TOOL



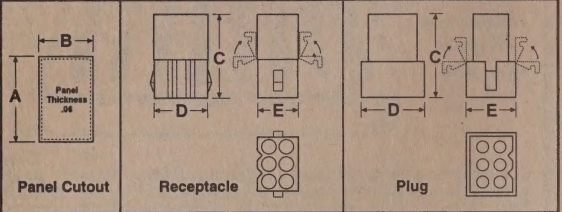
W-HT-1919.....For .093".....**$12.95**
W-HT-1921.....For .062".....**$12.95**

molex waldom

Grid Patterns



ORDER PINS SEPARATELY ON PAGE 89



Panel Cutout | Receptacle | Plug

.062" DIAMETER CONNECTORS

UL file number E-29179; CSA file number LR-19980. • Up to 5 amperes per circuit. • 250 volt rating. • Friction lock. • Standard color is natural. (• Ratings based on fully loaded housings.)

Plug

Receptacle

Grid Space	Grid Array	Type	Max. Amps Volts	Dimensions (In.) A	B	C	D	E	Part#	Pricing (1-99)	(100-up)
.062" DIAMETER CONNECTOR HOUSINGS - WITH DETENT ONLY, FREE HANGING											
.145"	1	Plug	5 250	----	----	.750	----	----	03-06-2011	$ .18	$ .10
		Receptacle	5 250	----	----	.780	----	.183	03-06-1011	.18	.10
	2	Plug	5 250	.609	.318	.780	.300	.440	03-06-2023	.29	.17
		Receptacle	5 250	.505	.265	.810	.192	.340	03-06-1023	.32	.19
	3	Plug	5 250	.754	.318	.750	.300	.590	03-06-2032	.36	.21
		Receptacle	5 250	.650	.265	.780	.192	.484	03-06-1032	.36	.21
	4	Plug	5 250	.865	.312	.750	.295	.730	03-06-2042	.51	.31
		Receptacle	5 250	.785	.260	.780	.192	.630	03-06-1042	.51	.31
	4(c)	Plug	5 250	.615	.465	.750	.442	.442	03-06-2044	.52	.32
		Receptacle	5 250	.506	.400	.750	.339	.339	03-06-1044	.52	.32
	5	Plug	5 250	1.044	.318	.750	.310	.890	03-06-2055	.52	.33
		Receptacle	5 250	.940	.265	.780	.192	.775	03-06-1056	.68	.41
	6	Plug	5 250	.615	.607	.750	.600	.450	03-06-2061	.55	.33
		Receptacle	5 250	.552	.505	.780	.494	.344	03-06-1062	.55	.33
	9	Plug	5 250	.752	.615	.750	.590	.590	03-06-2092	.56	.34
		Receptacle	5 250	.650	.552	.780	.494	.489	03-06-1092	.56	.34
	12	Plug	5 250	.903	.614	.750	.590	.740	03-06-2122	.59	.36
		Receptacle	5 250	.795	.563	.780	.494	.634	03-06-1122	.61	.37
	15	Plug	5 250	1.042	.614	.750	.590	.880	03-06-2152	.79	.48
		Receptacle	5 250	.934	.563	.780	.494	.776	03-06-1152	.94	.57
.062" DIAMETER CONNECTOR HOUSINGS - WITH MOUNTING EARS & DETENT, PANEL MOUNT											
.145"	2	Plug	5 250	.609	.318	.780	.300	.440	03-06-2024	.30	.18
		Receptacle	5 250	.505	.265	.810	.192	.340	03-06-1022	.31	.19
	3	Plug	5 250	.754	.318	.750	.300	.590	03-06-2033	.33	.20
		Receptacle	5 250	.650	.265	.780	.192	.484	03-06-1031	.36	.22
	4	Plug	5 250	.865	.312	.750	.295	.730	03-06-2041	.51	.31
		Receptacle	5 250	.785	.260	.780	.192	.630	03-06-1041	.51	.31
	4(c)	Plug	5 250	.615	.465	.750	.442	.442	03-06-2043	.52	.32
		Receptacle	5 250	.506	.400	.750	.339	.339	03-06-1043	.52	.32
	5	Plug	5 250	1.044	.318	.750	.310	.890	03-06-2054	.54	.33
		Receptacle	5 250	.940	.265	.780	.192	.775	03-06-1055	.68	.41
	6	Plug	5 250	.615	.607	.750	.600	.450	03-06-2062	.55	.32
		Receptacle	5 250	.552	.505	.780	.494	.344	03-06-1061	.55	.32
	9	Plug	5 250	.752	.615	.750	.590	.590	03-06-2091	.55	.32
		Receptacle	5 250	.650	.552	.780	.494	.489	03-06-1091	.55	.32
	12	Plug	5 250	.903	.614	.750	.590	.740	03-06-2121	.59	.36
		Receptacle	5 250	.795	.563	.780	.494	.634	03-06-1121	.61	.37
	15	Plug	5 250	1.042	.614	.750	.590	.880	03-06-2151	.79	.48
		Receptacle	5 250	.934	.563	.780	.487	.776	03-06-1151	.92	.58
	24	Plug	5 250	1.182	.765	.750	.740	1.040	03-06-2241	1.95	1.15
		Receptacle	5 250	1.079	.715	.750	.634	.918	03-06-1241	1.95	1.15

.093" DIAMETER CONNECTORS

UL file number E-29179; CSA file number LR-19980. • Up to 12 amperes per circuit. • 250 volt rating for 03-09 series; 600 volt rating for 19-09 series. • Friction lock for 03-09 series; Positive lock for 19-09 series. (• Ratings based on fully loaded housings.)

Plug

Receptacle

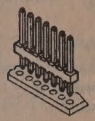
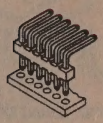
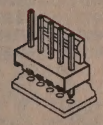
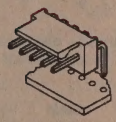
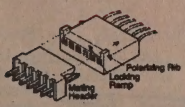
Grid Space	Grid Array	Type	Max. Amps Volts	Dimensions (In.) A	B	C	D	E	Part#	Pricing (1-99)	(100-up)
.093" DIAMETER CONNECTOR HOUSINGS - WITH DETENT ONLY, FREE HANGING											
.198"	1	Plug	12 5000	----	----	2.250	.437	----	03-09-2014	$ .38	$ .23
		Receptacle	12 5000	----	----	1.859	.312	----	03-09-1014	.37	.22
	1	Plug	12 250	----	----	1.000	.358	----	03-09-2011	.19	.11
		Receptacle	12 250	----	----	1.000	.234	----	03-09-1011	.19	.11
	2	Plug	12 250	.800	.375	1.000	.352	.639	03-09-2022	.34	.21
		Receptacle	12 250	.725	.312	1.030	.250	.536	03-09-1022	.34	.21
	3	Plug	12 250	.933	.375	.970	.340	.770	03-09-2032	.44	.26
		Receptacle	12 250	.840	.312	1.015	.236	.670	03-09-1032	.46	.28
	4	Plug	12 250	1.131	.375	1.000	.338	.971	03-09-2042	.45	.27
		Receptacle	12 250	1.038	.312	1.000	.236	.868	03-09-1042	.45	.27
	4(c)	Plug	12 250	.555	.695	1.024	.538	.538	03-09-2049	.86	.52
		Receptacle	12 250	.500	.600	1.000	.434	.434	03-09-1049	.88	.53
	5	Plug	12 250	1.331	.375	.969	.338	1.169	03-09-2052	.64	.38
		Receptacle	12 250	1.238	.312	1.000	.243	1.966	03-09-1052	.65	.39
	5(d)	Plug	12 250	----	----	.969	.390	1.170	03-09-2057	.58	.36
		Receptacle	12 250	----	----	1.000	.240	1.070	03-09-1057	.61	.37
	6	Plug	9 250	.750	.695	1.000	.733	.536	03-09-2062	.52	.32
		Receptacle	9 250	.718	.600	1.015	.632	.434	03-09-1064	.52	.32
	9(e)	Plug	9 250	.937	.660	.970	.730	.770	03-09-2092	.65	.39
		Receptacle	9 250	.828	.725	1.015	.625	.666	03-09-1094	.65	.39
	12	Plug	7.5 250	1.155	.760	1.000	.737	.770	03-09-2121	.73	.44
		Receptacle	7.5 250	1.050	.655	1.015	.633	.871	03-09-1126	.72	.43
.248"	2(b)	Plug	12 600	----	----	1.031	.359	.656	03-09-2028	.57	.35
		Receptacle	12 600	----	----	1.063	.265	.531	03-09-1028	.57	.35
	3(b)	Plug	9 600	----	----	1.031	.359	.921	03-09-2038	.68	.39
		Receptacle	9 600	----	----	1.063	.265	.784	03-09-1038	.68	.39
	4(b)	Plug	9 600	----	----	1.031	.359	1.156	03-09-2048	.71	.44
		Receptacle	9 600	----	----	1.063	.265	1.032	03-09-1047	.71	.44
.093" DIAMETER CONNECTOR HOUSINGS - WITH MOUNTING EARS & DETENT, PANEL MOUNT											
.198"	3	Plug	12 250	.933	.375	.970	.340	.770	03-09-2031	.45	.27
		Receptacle	12 250	.840	.312	1.015	.236	.670	03-09-1031	.48	.29
	4	Plug	12 250	1.131	.375	.969	.338	.971	03-09-2041	.46	.28
		Receptacle	12 250	1.038	.312	1.000	.236	.868	03-09-1041	.46	.28
	4(c)	Plug	12 250	.555	.695	.969	.538	.538	03-09-2040	.72	.44
		Receptacle	12 250	.500	.600	1.000	.434	.434	03-09-1040	.72	.44
	6	Plug	9 250	.750	.695	.969	.733	.536	03-09-2061	.52	.32
		Receptacle	9 250	.718	.600	1.015	.632	.434	03-09-1061	.52	.32
	9(e)	Plug	9 250	.937	.660	.970	.730	.770	03-09-2091	.67	.39
		Receptacle	9 250	.828	.725	1.015	.625	.666	03-09-1091	.65	.39
	12	Plug	7.5 250	1.155	.760	.969	.737	.975	03-09-2122	.73	.44
		Receptacle	7.5 250	1.050	.665	1.015	.633	.871	03-09-1125	.72	.43
	15	Plug	7.5 250	1.343	.760	.969	.734	1.169	03-09-2152	.92	.56
		Receptacle	7.5 250	1.240	.655	1.015	.632	1.066	03-09-1154	.92	.66
.248"	2(b)	Plug	12 250	.800	.375	.968	.352	.639	03-09-2021	.36	.21
		Receptacle	12 250	.725	.312	1.000	.250	.536	03-09-1027	.34	.20
.250"	3	Plug	11 600	1.022	.365	1.100	.350	.862	19-09-2031	.61	.43
		Receptacle	11 600	.920	.310	1.140	.250	.760	19-09-1031	.61	.43
	4	Plug	9 600	1.270	.365	.350	.350	1.110	19-09-2041	.86	.61
		Receptacle	9 600	1.168	.311	1.140	.250	.760	19-09-1041	.86	.61
	6	Plug	9 600	1.048	.658	1.100	.640	.886	19-09-2061	.89	.63
		Receptacle	9 600	.946	.608	1.140	.540	.790	19-09-1061	.89	.63
	9	Plug	8 600	1.048	.910	1.100	.890	.890	19-09-2091	.98	.69
		Receptacle	8 600	.948	.850	1.140	.790	.790	19-09-1091	.98	.69
	12	Plug	6 600	1.300	.910	1.100	.890	1.140	19-09-2122	1.50	1.05
		Receptacle	6 600	1.094	.850	1.140	.790	1.034	19-09-1121	1.50	1.05
	15	Plug	6 600	1.552	.910	1.100	.890	1.388	19-09-2153	1.99	1.39
		Receptacle	6 600	1.422	.850	1.140	.790	1.282	19-09-1151	1.99	1.39
.264"	1	Plug	12 600	.485	.343	.320	.320	.320	19-09-2018	.30	.19
		Receptacle	12 600	----	----	----	.300	.400	19-09-1019	.30	.19
	2	Plug	12 600	.800	.365	.635	.320	.580	19-09-2028	.50	.30
		Receptacle	12 600	----	----	----	.300	.560	19-09-1029	.50	.30
	3	Plug	11 600	1.022	.365	.862	.320	.848	19-09-2038	.55	.34
		Receptacle	11 600	----	----	----	.300	.830	19-09-1039	.55	.34
	4	Plug	9 600	1.270	.365	1.109	.321	1.110	19-09-2048	.57	.35
		Receptacle	9 600	----	----	----	.300	1.090	19-09-1049	.57	.35
	6	Plug	9 600	1.048	.658	.688	.604	.850	19-09-2068	.65	.39
		Receptacle	9 600	----	----	----	.560	.830	19-09-1069	.67	.41
	9	Plug	8 600	1.048	.909	.683	.868	.850	19-09-2098	.75	.45
		Receptacle	8 600	----	----	----	.560	.830	19-09-1099	.74	.46
	12	Plug	7 600	1.100	.910	1.140	.668	1.112	19-09-2128	.85	.51
		Receptacle	7 600	----	----	----	.830	.900	19-09-1129	.88	.53
	15	Plug	6 600	1.552	.910	1.392	.868	1.380	19-09-2158	1.20	.75
		Receptacle	6 600	----	----	----	.868	1.380	19-09-1159	1.30	.79

• (a) Electrical ratings are per circuit. (b) Center spacing .248" will accommodate: 14, 16 and 18 AWG with 1/32" insulation - 16 with 18 AWG (double crimp), each with 1/32" insulation. WM1400-WM1405 housings have positive locking rather than detent lock. (c) 4 circuits in square grid pattern. (d) Has positive lock rather than detent lock. (e) Mounting ears are molded flush with back edge of wire end. Not centered on side.

molex waldom

.100" CENTER HEADERS (.025" Diameter Pins)

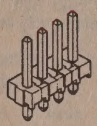
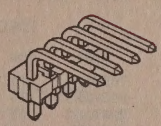
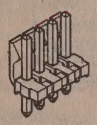
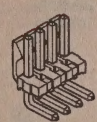
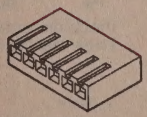
The Molex KK® concept utilizes a double cantilever contact design in mating with PC board pins. UL recognized (file #29179), CSA recognized (file #19980). **Voltage rating:** 250 VAC max. **Current rating:** up to 2.5 amps (w/22 AWG wire). **Resistance:** 20 milliohms max. **Dialectic withstanding voltage:** 1500 VAC for 60 seconds. **Storage temperature:** -40°C to 105°C. **Material:** 94V-O.

	Circuits	Length	Part#	(1-99)	(100-up)
Straight Header	2	.19"	22-03-2021	$ .14	$ .09
	3	.29"	22-03-2031	.21	.14
	4	.39"	22-03-2041	.30	.19
	5	.49"	22-03-2051	.38	.24
	6	.59"	22-03-2061	.45	.29
	7	.69"	22-03-2071	.52	.33
	8	.79"	22-03-2081	.53	.35
	9	.89"	22-03-2091	.60	.39
	10	.99"	22-03-2101	.61	.40
	11	1.09"	22-03-2111	.65	.42
	12	1.19"	22-03-2121	.72	.45
Right Angle Header	2	.19"	22-05-2021	$ .16	$ .10
	3	.29"	22-05-2031	.25	.16
	4	.39"	22-05-2041	.33	.30
	5	.49"	22-05-2051	.41	.27
	6	.59"	22-05-2061	.50	.33
	7	.69"	22-05-2071	.59	.38
	8	.79"	22-05-2081	.68	.44
	9	.89"	22-05-2091	.75	.48
	10	.99"	22-05-2101	.76	.49
	11	1.09"	22-05-2111	.84	.54
	12	1.19"	22-05-2121	.89	.58
Straight-Friction Lock Header	2	.200"	22-23-2021	$ .22	$ .14
	3	.300"	22-23-2031	.34	.22
	4	.400"	22-23-2041	.37	.24
	5	.500"	22-23-2051	.45	.29
	6	.60"	22-23-2061	.49	.30
	7	.700"	22-23-2071	.52	.32
	8	.800"	22-23-2081	.58	.37
	9	.900"	22-23-2091	.67	.42
	10	1.000"	22-23-2101	.68	.43
	11	1.100"	22-23-2111	.72	.47
	12	1.200"	22-23-2121	.79	.52
Right Angle-Friction Lock Header	2	.200"	22-05-3021	$ .47	$ .30
	3	.300"	22-05-3031	.54	.35
	4	.400"	22-05-3041	.60	.38
	5	.500"	22-05-3051	.67	.42
	6	.600"	22-05-3061	.75	.47
	7	.700"	22-05-3071	.85	.54
	8	.800"	22-05-3081	.89	.58
	9	.900"	22-05-3091	.94	.60
	10	1.000"	22-05-3101	.95	.62
	11	1.100"	22-05-3111	.99	.65
	12	1.200"	22-05-3121	1.05	.69
.100" CENTER CRIMP TERMINAL HOUSING (CONTACTS SOLD SEPARATELY)					
Center Crimp Terminal Housing	2	.22"	22-01-3027	$ .11	$ .07
	3	.32"	22-01-3037	.17	.11
	4	.42"	22-01-3047	.23	.15
	5	.52"	22-01-3057	.29	.19
	6	.62"	22-01-3067	.35	.22
	7	.72"	22-01-3077	.40	.26
	8	.82"	22-01-3087	.45	.29
	9	.92"	22-01-3097	.52	.34
	10	1.02"	22-01-3107	.59	.37
	11	1.12"	22-01-3117	.64	.41
	12	1.22"	22-01-3127	.69	.45
Polarized key for .100" Housings			15-04-9209	$ .10	$ .06
Polarized peg for .100" Housings			15-04-9210	.10	.06

molex waldom

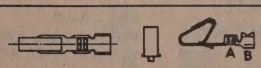
.156" CENTER HEADERS (.045" Diameter Pins)

The Molex KK® concept utilizes a double cantilever contact design in mating with PC board pins. UL recognized (file #29179), CSA recognized (file #19980). **Voltage rating:** 250 VAC max. **Current rating:** up to 7 amps (w/18 AWG wire). **Resistance:** 20 milliohms max. **Dialectic withstanding voltage:** 1500 VAC for 60 seconds. **Storage temperature:** -40°C to 105°C. **Material:** 94V-O.

	Circuits	Length	Part#	(1-99)	(100-up)
Straight Header	2	.267"	26-48-1021	$ .09	$ .07
	3	.423"	26-48-1031	.12	.10
	4	.579"	26-48-1041	.22	.14
	5	.735"	26-48-1051	.29	.19
	6	.891"	26-48-1061	.36	.21
	7	1.047"	26-48-1071	.39	.27
	8	1.203"	26-48-1081	.49	.29
	9	1.359"	26-48-1091	.57	.34
	10	1.515"	26-48-1101	.59	.38
	11	1.671"	26-48-1111	.69	.39
	12	1.827"	26-48-1121	.70	.45
Right Angle Header	2	.267"	26-48-1022	$ .13	$ .08
	3	.423"	26-48-1032	.20	.13
	4	.579"	26-48-1042	.28	.17
	5	.735"	26-48-1052	.32	.20
	6	.891"	26-48-1062	.39	.25
	7	1.047"	26-48-1072	.49	.29
	8	1.203"	26-48-1082	.57	.34
	9	1.359"	26-48-1092	.64	.38
	10	1.515"	26-48-1102	.69	.42
	11	1.671"	26-48-1112	.79	.47
	12	1.827"	26-48-1122	.84	.49
Straight-Friction Lock Header	2	.310"	26-48-1025	$ .16	$ .09
	3	.466"	26-48-1035	.22	.14
	4	.622"	26-48-1045	.31	.19
	5	.778"	26-48-1055	.40	.24
	6	.934"	26-48-1065	.48	.28
	7	1.090"	26-48-1075	.56	.33
	8	1.246"	26-48-1085	.65	.38
	9	1.402"	26-48-1095	.73	.43
	10	1.558"	26-48-1105	.79	.49
	11	1.714"	26-48-1115	.89	.53
	12	1.870"	26-48-1125	.94	.58
Right Angle-Friction Lock Header	2	.310"	26-48-1026	$ .11	$ .09
	3	.466"	26-48-1036	.26	.15
	4	.622"	26-48-1046	.35	.21
	5	.778"	26-48-1056	.44	.27
	6	.934"	26-48-1066	.54	.32
	7	1.090"	26-48-1076	.62	.38
	8	1.246"	26-48-1086	.74	.42
	9	1.402"	26-48-1096	.82	.48
	10	1.558"	26-48-1106	.91	.54
	11	1.714"	26-48-1116	.99	.59
	12	1.870"	26-48-1126	1.05	.64
.156" CENTER CRIMP TERMINAL HOUSING (CONTACTS SOLD SEPARATELY)					
Center Crimp Terminal Housing	2	.31"	09-50-3021	$ .13	$ .08
	3	.46"	09-50-3031	.20	.13
	4	.62"	09-50-3041	.26	.17
	5	.78"	09-50-3051	.34	.21
	6	.93"	09-50-3061	.39	.26
	7	1.09"	09-50-3071	.48	.30
	8	1.24"	09-50-3081	.54	.34
	9	1.40"	09-50-3091	.59	.39
	10	1.56"	09-50-3101	.69	.44
	11	1.71"	09-50-3111	.74	.46
	12	1.87"	09-50-3121	.79	.49
Polarized key for .156" Housings			15-04-0219	$ .13	$ .08
Polarized peg for .156" Housings			15-04-0220	.13	.08

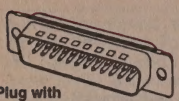
CRIMP TERMINALS FOR .100" & .156" CENTER HOUSINGS

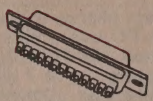
Plating: 200-300µ inch Hot-Tin Dip tin plating.



Description	Wire Size	Insulation Dia.	Part#	(1-99)	(100-up)
For .100" Housings	22-30	.062 Max	08-50-0114	$ .08	$ .07
For .156" Housings	18-24	.110 Max	08-50-0106	$ .06	$ .05
	22-26	.065 Max	08-50-0108	$ .06	$ .05

HDP-20 SOLDER CUP CONNECTORS WITH PRE-LOADED CONTACTS


Plug with Grounding Indents


Receptacle

Mfg. - AMP
Steel shells have either tin or zinc plating. Connector inserts are 94V-0 rated black thermoplastic. Pre-loaded non-removable solder cup contacts are phosphor bronze with duplex plated gold flash on mating end; tin-lead on solder cup. Accept 20 AWG or smaller solid or stranded wire. Fits .062" (1.57) thick RC board. UL recognized file E28476. CSA certified.

TIN PLATED PLUGS WITH GROUNDING INDENTS

Part#	Pins	Width	(1-99)	(100-Up)
747904-2	9	1.213	$1.55	$1.09
747908-2	15	1.541	1.99	1.45
747912-2	25	2.088	2.99	2.19
747916-2	37	2.729	4.25	3.19

ZINC PLATED PLUGS

Part#	Pins	Width	(1-99)	(100-Up)
747904-4	9	1.213	$1.49	$1.05
747908-4	15	1.541	1.99	1.45
747912-4	25	2.088	3.05	2.15
747916-4	37	2.729	4.25	3.19

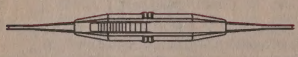
TIN PLATED RECEPTACLES

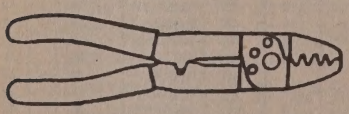
Part#	Pins	Width	(1-99)	(100-Up)
747905-2	9	1.213	$1.99	$1.45
747909-2	15	1.541	2.49	1.99
747913-2	25	2.088	3.45	2.69
747917-2	37	2.729	5.25	3.99

ZINC PLATED RECEPTACLES

Part#	Pins	Width	(1-99)	(100-Up)
747905-4	9	1.213	$1.99	$1.45
747913-4	25	2.088	3.45	2.69

HDP-20 APPLICATION TOOLING

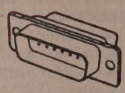

91067-2


601884-1

Part#	Description	Price
91067-2	24-20AWG insertion/extraction tool	$4.75
601884-1	AMP service tool no. 725	28.95

HDP-20 SNAP-IN CRIMP CONTACT CONNECTORS

Plug with Grounding Indents


Receptacle

Mfg. - AMP
Steel shells have either tin or zinc plating. Connector inserts 94V-0 rated thermoplastic. Used for discrete wire terminations. UL recognized, file E28476; CSA certified, file LR16455. Order HDP-20 snap-in contacts and tooling separately on this page.

TIN PLATED PLUGS WITH GROUNDING INDENTS

Part#	Pins	W x H	(1-99)	(100-Up)
205204-4	9	1.213 x .494"	$1.59	$1.19
205206-3	15	1.541 x .494"	1.62	1.22
207464-2	25	2.088 x .494"	1.65	1.25
205210-3	37	2.729 x .494"	1.99	1.49

ZINC PLATED PLUGS

Part#	Pins	W x H	(1-99)	(100-Up)
205204-1	9	1.213 x .494"	$1.15	$ .89
205206-1	15	1.541 x .494"	1.16	.91
205208-1	25	2.088 x .494"	1.19	.93
205210-1	37	2.729 x .494"	1.45	1.15

TIN PLATED RECEPTACLES

Part#	Pins	W x H	(1-99)	(100-Up)
205203-3	9	1.213 x .494"	$1.15	$ .89
205205-2	15	1.541 x .494"	1.16	.91
207463-1	25	2.088 x .494"	1.19	.93
205209-2	37	2.729 x .494"	1.45	1.15

ZINC PLATED RECEPTACLES

Part#	Pins	W x H	(1-99)	(100-Up)
205203-1	9	1.213 x .494"	$1.15	$ .89
205205-1	15	1.541 x .494"	1.16	.91
205207-1	25	2.088 x .494"	1.19	.93
205209-1	37	2.729 x .494"	1.45	1.15

HDP-20 SNAP-IN CONTACTS

Crimp Pin — Crimp Socket — Solder Cup Pin — Solder Cup Socket

Precision formed snap-in crimp contacts and solder cup contacts fit HDP-20 connectors.

BRASS PINS

Part#	Wire Size/Plating	Price
1-66507-0	28-24AWG/gold flash crimp	$ .13
1-66506-0	24-20AWG/gold flash crimp	.13
66570-3	18AWG max/gold flash solder cup	.17

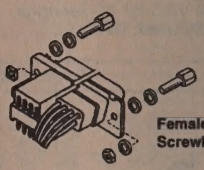
PHOSPHOR BRONZE SOCKETS

Part#	Wire Size/Plating	Price
1-66505-0	28-24AWG/gold flash crimp	$ .13
1-66504-0	24-20AWG/gold flash crimp	.13
66569-3	18AWG max/gold flash solder cup	.19

AMPLIMITE™ D-SUBMINIATURE HARDWARE

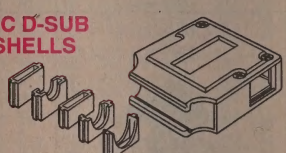
Male Screw Retainer Kit

Mfg. - AMP
All female screwlock kits fit metal shell or plastic connector and include 2 complete assemblies per package.


Female Screwlock Kit

Part#	Description	Price
205980-1	Male screw retainer kit for metal shells	$ .39
205817-1	Standard female screwlock kit	.85
207719-1	Long female screwlock kit	.95

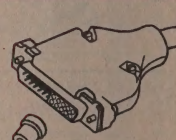
PLASTIC D-SUB BACK SHELLS



Mfg. - AMP
Black thermoplastic housing, gates, zinc-plated steel screws.

Part#	Positions	Cable O.D.	(1-99)	(100-Up)
207467-1	9	.160"	$1.99	$1.79
207470-1	15	.320"	2.09	1.89
207345-1	25	.390"	2.15	1.99
207473-1	37	.640"	2.29	2.09

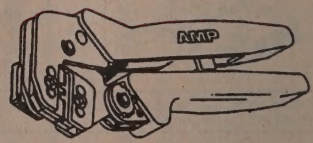
METAL-PLATED PLASTIC SHIELD CABLE CLAMPS



Mfg. - AMP
Straight exit RFI/EMI shieds allow jacketed cable to be terminated to connector before shield is installed

Part#	Positions	Cable O.D.	Price
748677-1	9	.185-.32"	$5.49
748677-2	15	.185-.32"	3.75
748677-3	25	.255-.47"	4.49
748677-4	37	.255-.47"	5.25

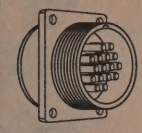
PRO-CRIMPER™ II



Mfg. - AMP
Ratchet crimp tool for contacts on 28-24 AWG wire and 24-20 AWG wire.

58448-2.....$189.95

SERIES 1 CPC CONNECTORS



Standard Sex Square Flange Receptacle

Standard Sex Plug

Standard Sex Free-hanging Receptacle

arr. 11-4

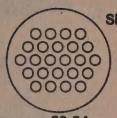
Shell Size 11 & 13

arr. 13-9

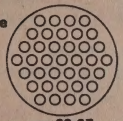
Shell Size 17

arr. 17-16

Shell Size 23



arr. 23-24



arr. 23-37

Series 1 lightweight, all-plastic connectors permit the use of multiple combinations of signals and coaxial circuits in the same housing by accepting Multimate® contacts, ordered separately on this page. Ideal for standard density applications, these connectors are unsealed units that are CSA certified and UL recognized, 94V-1 rated, heat stabilized, fire resistant and self-extinguishing thermoplastic. Maximum wire insulation dia: .100" (2.54) except for arrangement 23-24 which will accept .150" (3.81) dia.

STANDARD SEX SQUARE FLANGE RECEPTACLES

Part#	Contact Alignment	Price
206061-1	11-4	$1.59
206705-1	13-9	1.65
206036-1	17-16	1.69
206838-1	23-24	1.95
206151-1	23-37	1.75

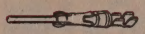
STANDARD SEX FREE-HANGING RECEPTACLES

Part#	Contact Alignment	Price
206153-1	11-4	$1.49
206705-2	13-9	1.59
206036-3	17-16	1.55
206838-2	23-24	2.59
206151-2	23-37	1.99

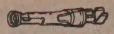
STANDARD SEX PLUGS

Part#	Contact Alignment	Price
206060-1	11-4	$1.75
206708-1	13-9	1.85
206037-1	17-16	1.95
206837-1	23-24	2.45
206150-1	23-37	2.19

SERIES 1 TYPE III MULTIMATE® CONTACTS



Crimp Pin



Crimp Socket

Designed for Series 1 CPC connectors ordered separately on this page. Precision formed crimp types. Brass contact body with tin plating and stainless steel spring. Contact size: 16 pin diameter: .062" (1.57). Test current: 13 amps max.

TIN FINISH PINS

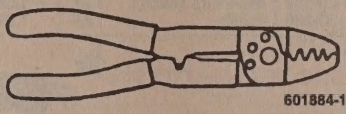
Part#	Wire Size Range AWG	Inside Dia. Range AWG	(1-99)	(100-Up)
66107-2	28-24	.035-.055"	$ .22	$ .16
66103-2	24-20	.040-.080"	.22	.16
66361-2	18-14	.080-.110"	.22	.15

TIN FINISH SOCKETS

Part#	Wire Size Range AWG	Inside Dia. Range AWG	(1-99)	(100-Up)
66109-2	26-24	.035-.055"	$ .40	$ .27
66105-2	24-20	.040-.080"	.25	.18
66360-2	18-14	.080-.110"	.25	.18

APPLICATION TOOLING

305183

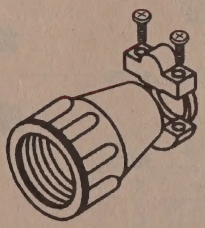


601884-1

Contact extraction tool for circular plastic connector contacts.
305183.....$14.82

Super Champ crimping tool for open-and closed-barrel non-insulated terminals #22 to 10 AWG.
601884-1.....$28.95

CPC STANDARD CABLE CLAMP

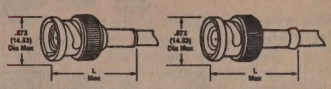


Part#	Shell Size	Price
206062-1	11	$2.46
206966-1	13	2.48
206070-1	17	2.48
206138-1	23	2.56

AMP

AMP BNC CONNECTORS

50 OHM MALE CABLE ENDS



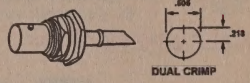
DUAL CRIMP HEX CRIMP

Part#	RG/U Cable	Crimp Type	Plating Center Contact Body	Dielectric	Dim (L*)	Price
1-227079-6+	174, 188, 188A, 316	Dual	G/N	P	1.09	$1.75
225395-1*		Dual	G/N	T	1.328	2.20
227079-5+	58, 58A 58B, 58C	Dual	G/N	P	1.09	1.59
221128-1+		Hex	G/N	P	1.32	1.62
225395-2*	124, 140, 210	Dual	G/N	T	1.188	2.19
227079-7+	62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9268	Dual	G/N	P	1.09	1.49

*Mil Type Style +Commercial Grade Style
PLATING: G=Gold N=Nickel
DIELECTRIC: T=Teflon P=Polypropiene

AMP BNC CONNECTOR

50 OHM BULKHEAD JACK



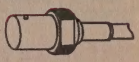
DUAL CRIMP

1.625" long
For RG/U 124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209 and 9268. Nickel plating, gold center pin with Teflon dielectric. Mil spec. Dual crimp.

225398-2.....$3.63

AMP BNC CONNECTOR

50 OHM CRIMP JACK

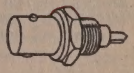


For RG/U 58, 58A, 588 and 58C cable. Nickel plating, gold center pin with Teflon dielectric. Mil spec.

225396-1.....$3.20

AMP BNC CONNECTOR

50 OHM BULKHEAD JACK

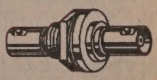


Panel thickness:
.046 - .250 / 1.17 - 6.35
Nickel plating, gold center pin with white VALOX dielectric.

227726-3.....$1.99

AMP BNC CONNECTOR

50 OHM BULKHEAD



Nickel plating, gold center pin with Polyethlene dielectric.

228226-1.....$4.49

BNC MALE 3-PIECE CRIMP

Economy Type

Male crimp style BNC.
Captive gold pin.

Part#	Cable	1-99	100-Up
60-257	RG-58	$1.10	$ .89
60-258	RG-58 Teflon	1.10	.89
60-259	RG-59/62	1.10	.89
60-260	RG-59/62 Teflon	1.10	.89
60-261	RG-6	1.10	.89

BNC MALE 3-PIECE CRIMP

Industry Standard Type

Male crimp style BNC.
Captive gold pin.

Part#	Cable	1-99	100-Up
60-251	RG-58	$1.25	$ .99
60-252	RG-58 Teflon	1.25	.99
60-253	RG-59/62	1.25	.99
60-254	RG-59/62 Teflon	1.25	.99
60-255	RG-6	1.25	.99

BNC MALE 2-PIECE CRIMP

Male crimp style BNC.
Captive gold pin.

Part#	Cable	1-99	100-Up
60-273	RG-58	$1.20	$ .99
60-274	RG-58 Teflon	1.20	.99
60-275	RG-59/62	1.20	.99
60-276	RG-59/62 Teflon	1.20	.99
60-277	RG-6	1.20	.99
60-278	Belden 8281	1.20	.99

BNC MALE 3-PIECE SOLDER

Male BNC solder or crimp contact.
Gold center pin.

Part#	Cable	1-99	100-Up
60-262	RG-58	$1.50	$ 1.30
60-263	RG-59/62	1.50	1.30
60-264	RG-59/62 Teflon	1.50	1.30

BNC MALE TWIST-ON

Field installable twist-on male BNC connector.
Captive gold pin.

Part#	Cable	1-99	100-Up
60-267	RG-58	$1.50	$1.25
60-268	RG-58 Teflon	1.50	1.25
60-270	RG-59/62 Teflon	1.50	1.25
60-271	RG-6	1.50	1.25
60-272	Belden 8281	1.50	1.25

BNC MALE STANDARD SOLDER TYPE

Male solder style BNC connector.
Gold center pin.

Part#	Cable	1-99	100-Up
60-265	RG-58	$1.39	$ 1.15
60-266	RG-59/62	1.39	1.15

BNC FEMALE 2-PIECE CRIMP

Female crimp style BNC.

Part#	Cable	1-99	100-Up
60-279	RG-58	$1.25	$ .99
60-280	RG-59/62	1.25	.99
60-281	RG-6	1.25	.99
60-282	RG-59/62 Teflon	1.25	.99

BNC FEMALE TWIST-ON

Field installable twist-on female BNC.

Part#	Cable	1-99	100-Up
60-283	RG-58	$1.65	$1.39
60-284	RG-59/62	1.65	1.39
60-285	RG-59/62 Teflon	1.65	1.39
60-286	RG-6	1.65	1.39

BNC TERMINATORS

50 ohm, 1/2 watt, 1%
60-302.....$1.25

75 ohm, 1/2 watt, 1%
60-303.....$1.25

BNC "T" ADAPTERS

2 females to 1 male
Mil# - UG-274

956.....$1.99

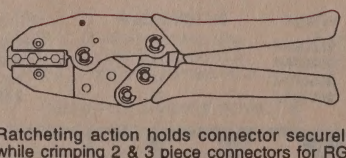
3 females

60-289.....$1.75

3 males

60-288.....$2.75

RATCHETING HEX CRIMP TOOL



Ratcheting action holds connector securely while crimping 2 & 3 piece connectors for RG-58/U, RG-59/U, RG-62/U and RG-6/U.

54-152.....$26.95

BNC CHASSIS MOUNT

Mfg.# - UG1094
Gold solder cup. Includes ground tab

	(1-99)	(100-Up)
952	$ .85	$ .69

BNC CHASSIS MOUNT

Mil# - UG-290

	(1-99)	(100-Up)
999	$1.25	$1.15

BNC FEMALE BULKHEAD

BNC double chassis mount
Mil# - UG-492/BU
60-287.....$1.95

BNC DOUBLE MALE

Mil# - UG-491
491DM.....$1.49

BNC DOUBLE FEMALE

Mil# - UG-914
959.....$1.25

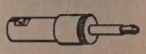
BNC RIGHT ANGLE

90° male to female
Mil# - UG-306
953.....$1.99

BNC FEMALE TO QUICK "F" MALE

966.....UG-272.....$1.49

BNC FEMALE TO 1/8" MINI PLUG



963.....$1.49

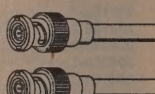
BNC MALE TO RCA FEMALE

955.....$ .95

BNC FEMALE TO RCA MALE

957.....$1.49

BNC MALE TO BNC MALE CABLE



Shielded RG-58
50 ohms

60-232	3ft.	$2.49
60-233	6ft.	$3.25
60-234	12ft.	$4.25
60-235	25ft.	$6.95
60-381	50ft.	$8.95
60-382	100ft.	$12.95

"F" MALE CRIMP

FC65.....For RG-59.....$ .18
60-341.....Gold For RG-59.....$ .28
FC65-6.....For RG-6.....$ .18

"F" MALE CRIMP

FCR.....For RG-59.....$ .23
FCR-6.....For RG-6.....$ .25

"F" MALE CRIMP

FC57.....For RG-59.....$ .25
60-339.....Gold For RG-59.....$ .35
60-340.....For RG-6.....$ .25
60-301.....Gold For RG-6.....$ .35

"F" MALE TWIST ON

60-142.....For RG-59.....$ .25
FCG59C.....Gold For RG-59.....$ .35
60-342.....For RG-6.....$ .25
60-343.....Gold For RG-6.....$ .35

RG59/U-TV CABLE

OD - .24", black
75 ohm impedance
80% copper shield, 22 AWG solid center.

60-175.....Black.....$ .12/ft
60-318.....White.....$ .12/ft

RG6/U

OD - .28" black
75 ohm impedance
40% aluminum shield, 18 AWG solid center

60-236.....$ .12/ft

QUICK "F" ADAPTER

FC62.....$ .50

"F" CHASSIS

F61.....$ .35

DOUBLE FEMALE "F"

FC67.....$ .40
FCG67.....GOLD.....$ .55

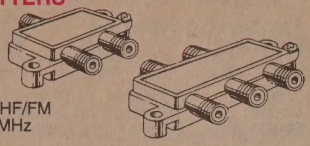
DOUBLE MALE "F"

FC73.....$ .69

"F" RIGHT ANGLE

FC61.....$ .75

SPLITTERS



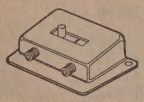
UHF/VHF/FM
5-900 MHz

FC2W.....2 way.....$ .79
FCG2W.....2 way gold plated.....$1.35
FC3W.....3 way.....$1.19
FC4W.....4 way.....$1.25

75 OHM "F" TERMINATOR

FC2D.....$ .35

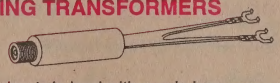
A/B SWITCH



75 ohm input/output
"F" type

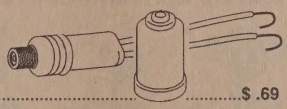
S-777.....$1.95

MATCHING TRANSFORMERS



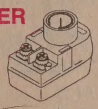
Input 300 ohm twin lead with spade lugs
Output 75 ohm "F" female

Indoor
MT73.....$ .35



Outdoor
MT74.....$ .69

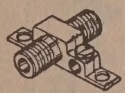
MATCHING TRANSFORMER



Push on matching transformer
Input 300 ohms screw type
Output 75 ohm push on

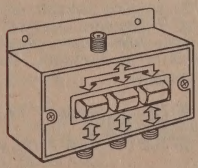
56-102.....$ .48

GROUNDING BLOCK



FC50.....$ .50

A/B/C SWITCH



75 ohm input/output
"F" type

CS4S.....$4.95

QUICK "F" RIGHT ANGLE

FC70.....$1.50

MONSTER CABLE® TWIST CRIMP® GOLD PINS®

OmniFlex® connector allows bending and flexing in all directions for easy installation. Patented 60° angle reduces stress on speaker cables. Special locknotch® design won't pull out of push-pin terminal connections. 24K gold connection.

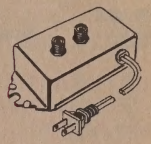
74-532.....one pair red/black.....$ .49

TNC BULKHEAD

Mfg. - DELTA
O.A. length 1-3/8"
Mounts in a 1/2" hole. Hermetically sealed. Teflon with gold pins. Includes external tooth lock washer, gasket and nut. Most popular cellular phone connector.

TNC.....$ .99

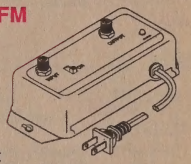
10 dB VHF/FM DISTRIBUTION AMPLIFIER



117 VAC input
50-300 MHz 75 ohm
One output 10 dB gain
Amplifies channels 2-13

DA24.....$9.95

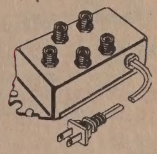
24 dB UHF/VHF/FM DISTRIBUTION AMPLIFIER



117 VAC input
Switchable FM trap
75 ohm input & output
Amplifies mid & super band
Lightning protection

DA26.....$19.95

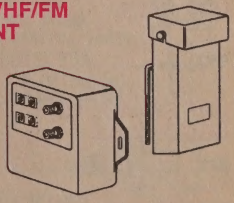
4 WAY AMPLIFIER SPLITTER



117 VAC input
75 ohm
3 dB gain to each port
No picture loss

DA27B.....$19.95

25 dB UHF/VHF/FM MAST MOUNT AMPLIFIER



117 VAC input
75 or 300 ohm input & output. Gain VHF 25 dB, UHF 22 dB. Full lightning protection

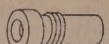
57-108.....$29.95

PL259A

Mfg. - AMPHENOL
Nickel plated brass with
Diallayl Phthalate Dielectric

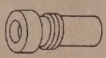
PL259A.....$1.49

REDUCER



RG-58
UG175-U.....$ .25

REDUCER



RG-59
UG176-U.....$ .25

UHF CHASSIS MOUNT

SO-239.....$ .75

UHF DOUBLE FEMALE

PL-258
553A.....$1.00

UHF CHASSIS MOUNT DOUBLE FEMALE BULKHEAD

555A.....$2.75

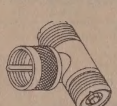
UHF DOUBLE MALE

554A.....$2.25

UHF RIGHT ANGLE

551A.....$2.45

UHF "T" CONNECTOR



2 Female - 1 Male
552A.....$2.45

BNC MALE TO UHF FEMALE

951.....UG-255.....$1.75

BNC FEMALE TO UHF MALE

950.....$1.95

UHF FEMALE TO BNC FEMALE

962.....$1.95

UHF FEMALE TO RCA MALE

550A.....$1.25

5.5mm DC POWER JACKS

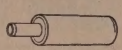
For 5.5mm O.D. mating plug
Solder lug

Part#	For Center	(1-99)	(100-Up)
60-350	2.15mm	$ .45	$ .29
60-359	2.5mm	$ .45	$ .29

Right angle

Part#	For Center	(1-99)	(100-Up)
60-360	2.15mm	$ .39	$ .25
60-361	2.5mm	$ .39	$ .25

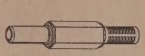
DC COAXIAL POWER PLUGS



Black

Part#	OD x ID	Price
60-213	5.5mm x 2mm	$ .50
60-214	5.5mm x 2.5mm	$ .50
60-229	5.5mm x 3mm	$ .50

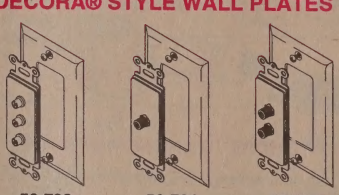
5.5mm DC COAXIAL POWER PLUGS



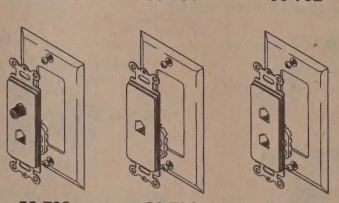
WITH BLACK STRAIN RELIEF

Part#	I.D.	Price
60-357	2.15mm	$ .50
60-358	2.5mm	$ .50

DECORA® STYLE WALL PLATES



56-790 56-791 56-792



56-793 56-794 56-795

Single gang decorator-style flush plates mounted in standard electrical boxes. High-impact white ABS plastic mounting bracket supplied with white hardware. 6-microinch gold plated contacts.

56-791.....Single "F" TV, gold plated.....$1.49

56-792.....Dual "F" TV, gold plated.....$1.99

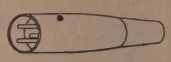
Triple RCA
56-790.....Suitable for DSS installations.....$2.99

56-794.....Single 4 pin, 6 position RJ-11.....$1.95

56-795.....Dual 4 pin, 6 position RJ-11.....$2.49

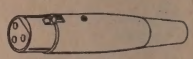
Single "F" TV, gold plated
56-793.....Single 4 pin, 6 position RJ-11.....$2.75

XLR TYPE IN-LINE MALE



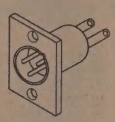
30-526.....3 pin.....$2.50
30-527.....4 pin.....$4.95
30-528.....5 pin.....$5.25

IN-LINE FEMALE



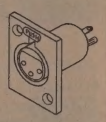
30-529.....3 pin.....$2.50
30-530.....4 pin.....$5.95
30-531.....5 pin.....$6.50

MALE CHASSIS MOUNT



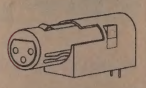
30-532.....3 pin.....$3.25
30-533.....4 pin.....$4.25
30-534.....5 pin.....$4.50

FEMALE CHASSIS MOUNT



30-535.....3 pin.....$3.25
30-537.....5 pin.....$6.50

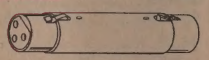
FEMALE PC MOUNT



Mfg. - SWITCHCRAFT
Mfg.# - RAPC3FG
Female, PC mount

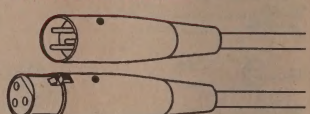
30-539.....3 pin.....$1.99

FEMALE TO FEMALE COUPLER



30-525.....3 pin.....$12.50

EXTENSION MIC CABLE



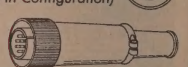
3 pin, XLR connectors
Low loss, heavy gauge cable.

60-354.....20ft Male to female.....$9.95

VTR PROFESSIONAL CONNECTORS

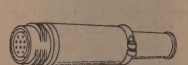
(Pin Configuration)

Male in-line video camera plug



VTR-1.....$6.99

Female in-line video camera jack

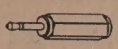


VTR-3.....$4.95

Female chassis mount video camera jack

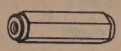
VTR-2.....$5.75

3/32" (2.5mm) MONO



702P.....Plastic.....$ .50

3/32" (2.5mm) MONO



660V.....Plastic.....$ .50

3/32" (2.5mm) MONO

702J.....SPST Normally Closed.....$ .50

1/8" (3.5mm) MONO

Plastic
501PR.....Red.....$ .50
501PB.....Black.....$ .50

1/8" (3.5mm) MONO

Plastic
501V.....Black.....$ .50

1/8" (3.5mm) MONO

501J.....SPST Normally Closed.....$ .50

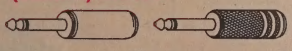
1/8" (3.5mm) STEREO

Plastic
502P.....Black.....$ .50

1/8" (3.5mm) STEREO

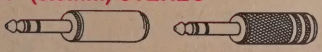
Plastic
S183.....Black.....$ .50

1/4" (6.3mm) MONO



527.....Plastic.....$ .47
53WS.....Metal.....$ .90

1/4" (6.3mm) STEREO



524W.....Plastic.....$ .50
524WS.....Metal.....$ .95

1/4" (6.3mm)

60-243.....Mono.....$ .50
60-205.....Stereo.....$ .70

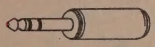
1/4" LITTEL JAX PHONE JACK

Mfg. - SWITCHCRAFT, #11
Features notched insulating washers that mechanically interlock springs and solder lugs. "V" bend in tip spring firmly holds mating phone plug.

60-321.....$ .99

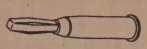
DRAKE AND COLLINS

Stereo



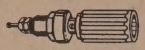
224D..... .206" Dia Stereo $1.75

BANANA PLUG



	(1-99)	(100-Up)
2349B.....Black.....	$ .35	$ .27
2349R.....Red.....	$ .35	$ .27

INSULATED BINDING POST



Back in Stock!

Accepts standard .08" dia. tip plug. Insulated body is flatted to prevent turning. Round captive thumb nut. Banana plug receptacle in stem. Mounts in a 1/4" dia. hole.

	(1-99)	(100-Up)
80-265.....Red.....	$ .50	$ .45
80-266.....Black.....	$ .50	$ .45

30 AMP GOLD PLATED BINDING POST

Mfg. - EF Johnson
Mounts in 1/2" hole. For .062" to .250" panel thickness. 1000 VAC RMS. Accepts standard banana plug, hex type. Blue keyed insulators prevent turning of installation. Gold plated for corrosion resistance.

	(1-99)	(100-Up)
80-259.....	$1.75	$1.49

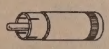
PLASTIC SHELL MALE

MS14B.....Black.....$ .25
MS14R.....Red.....$ .25

PLASTIC SHELL FEMALE

MS15B.....Black.....$ .35
MS15R.....Red.....$ .35

METAL SHELL



MS10.....Male.....$ .47

CHASSIS MOUNT JACK

MS12.....$ .48

CRIMP FOR RG59

RP59.....Male.....$ .50

RCA DOUBLE FEMALE

SA13.....Female.....$ .75

RCA PLUG

All metal construction. Strain relief..

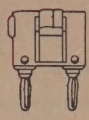
APC-1.....Gold.....$1.25

GOLD RCA JACK

All metal construction. Strain relief..

74-479.....$1.25

DUAL BANANA PLUG



	(1-99)	(100-Up)
2360.....Black.....	$1.85	$1.65
2362.....Red.....	$1.85	$1.65

GOLD DUAL BANANA PLUG

Gold plated, 2 pole plugs with color coded set screws for securing wires.

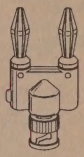
74-392.....$2.99

DUAL 5 WAY BINDING POST

Mfg. - SUPERIOR, #BP30-2BRT
Rated 30 amp @ 1Kv. 3/4" mounting centers. Accepts standard banana plug or up to 14 AWG wire. Hex nut type. 8-32 threads. Accommodates panels up to 1/4" thick. Colored coded Red & Black.

74-512.....$1.99
74-513.....Gold Plated.....$2.99

BNC MALE TO DUAL BANANA PLUG



Standard .750" spacing.
.161" holes in body for side spacing.

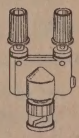
	(1-99)	(100-Up)
2380.....	$3.75	$3.45

BNC FEMALE TO DUAL BANANA PLUG

Standard .750" spacing
.161" holes for side stacking.

	(1-99)	(100-Up)
2382.....	$4.95	$4.49

BNC MALE TO DUAL BINDING POSTS



Mfg. - HH SMITH, #1688
Molded ABS body, heat treated beryllium copper spring nickel plated, solid brass BNC connectors. Rated at 15 amps. Accepts banana plugs or wire. MIL UG-1441/U style. Colored coded Red & Black.

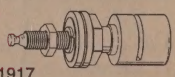
74-509.....$3.99

DUAL BINDING POST TO BNC FEMALE

Mfg. - ITT POMONA, #1452
Red and black binding posts accept banana plugs or wire.

	(1-99)	(100-Up)
74-421.....	$5.49	$4.99

SPRING LOADED BINDING POSTS



Mfg. - ACCURATE, #211917
Nylon washers; silicon rubber insulation. Black rubber boot. 15 amp. MIL SPEC

74-232.....$ .99

RCA DOUBLE FEMALE

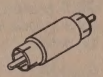
Nickel

60-488.....Plastic.....$ .75

Gold plated

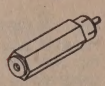
60-489.....Plastic.....$ .99

RCA DOUBLE MALE



60-496.....Plastic.....$ .75

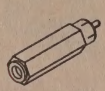
1/8" (3.5mm) FEMALE to RCA MALE



Mono

60-500.....Plastic.....$ .99

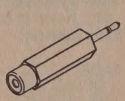
1/4" (6.3mm) FEMALE to RCA MALE



Mono

60-484.....Plastic.....$ .99

RCA FEMALE to 1/8" (3.5mm) MALE



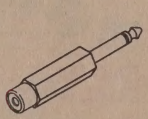
Mono

60-490.....Plastic.....$ .75

Mono - Gold plated

60-491.....Plastic.....$ .99

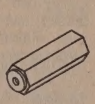
RCA FEMALE to 1/4" (6.3mm) MALE



Mono

60-497.....Plastic.....$ .75

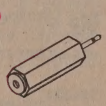
1/8" (3.5mm) DOUBLE FEMALE



Stereo

60-481.....Metal.....$1.25

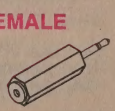
1/8" (3.5mm) MONO (F) to 3/32" (2.5mm) MONO (M)



Mono

60-482.....Plastic.....$ .99

1/8" (3.5mm) STEREO FEMALE to 1/8" (3.5mm) MONO MALE



60-495.....Plastic.....$ .65

1/8" (3.5mm) FEMALE 1/4" (6.3mm) MALE

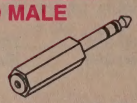
Mono

60-501.....Plastic.....$ .75

Stereo

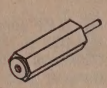
60-502.....Plastic.....$ .75

1/8" (3.5mm) MONO FEMALE to 1/4" (6.3mm) STEREO MALE



60-485.....Plastic.....$ .99

1/8" (3.5mm) FEMALE to 1.3mm DC COAXIAL PLUG



Mono

60-499.....Plastic.....$1.25

1/8" (3.5mm) FEMALE to 3mm DC COAXIAL PLUG

Mono

60-493.....Plastic.....$1.25

1/4" (6.3mm) FEMALE to 1/8" (3.5mm) MALE

Stereo

60-486.....Plastic.....$ .75

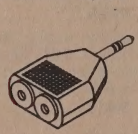
Mono

60-487.....Plastic.....$ .49

1/4" (6.3mm) STEREO FEMALE to 1/8" (3.5mm) MONO MALE

60-494.....Plastic.....$ .75

DUAL 1/8" (3.5mm) FEMALE to 1/8" (3.5mm) MALE



Stereo

60-498.....Plastic.....$1.65

DUAL 1/8" (3.5mm) FEMALE to 1/4" (6.3mm) MALE

Stereo

60-483.....Plastic.....$1.75

DUAL 1/4" (6.3mm) FEMALE to 1/8" (3.5mm) MALE

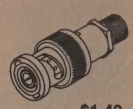
Stereo

60-492.....Plastic.....$1.75

RCA FEMALE/ "F" MALE

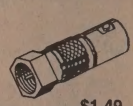
FC63.....$ .99

BNC MALE TO "F" FEMALE



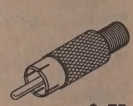
960.....$1.49

"F" MALE TO BNC FEMALE



958.....$1.49

RCA MALE TO "F" FEMALE

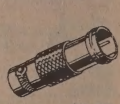


FC69.....$ .75

"F" FEMALE/ RCA FEMALE

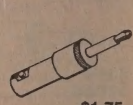
FC74.....$ .99

BNC FEMALE TO QUICK "F" MALE



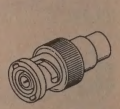
966.....UG-272.....$1.95

BNC FEMALE TO 1/8" MINI PLUG



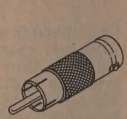
963.....$1.75

BNC MALE TO RCA FEMALE



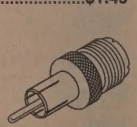
955.....$1.49

RCA MALE TO BNC FEMALE



957.....$1.49

RCA MALE TO UHF FEMALE



60-504.....$1.49

MIC CONNECTORS

	2 Pin	3 Pin	4 Pin	5 Pin	6 Pin	7 Pin	8 Pin
IN-LINE FEMALE	Order No. MC2P $1.75	Order No. MC3P $1.75	Order No. MC4P $1.75	Order No. MC5P $1.75	Order No. MC6P $2.00	Order No. MC7P $2.75	Order No. MC8P $2.50
MALE CHASSIS SOCKET	Order No. 2PMCS $1.75	Order No. 3PMCS $2.00	Order No. 4PMCS $1.40	Order No. 5PMCS $1.50	Order No. 6PMCS $2.00	Order No. 7PMCS $2.50	Order No. 8PMCS $2.00
IN-LINE MALE	Order No. 2ILC $2.00	Order No. 3ILC $2.25	Order No. 4ILC $3.50	Order No. 5ILC $3.75	Order No. 6ILC $2.25	Order No. 7ILC $2.75	Order No. 8ILC $2.75

DIN CONNECTORS

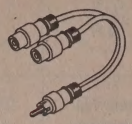
	3 Pin	4 Pin	5 Pin	5 Pin	6 Pin	7 Pin	8 Pin
IN-LINE MALE	----------	Order No. DP4M $1.75	Order No. DP5-180M $ .75	Order No. DP5-240M $ .75	Order No. DP6M $ .75	Order No. DP7M $ .75	Order No. DP8M $ .75
CHASSIS MOUNT FEMALE	Order No. DP3C $ .75	Order No. DP4C $ .75	Order No. DP5C-180 $ .99	Order No. DP5C-240 $ .75	Order No. DP6C $ .75	Order No. DP7C $1.09	Order No. DP8C $1.09
IN-LINE FEMALE	----------	----------	Order No. DP5-180F $ .75	Order No. DP5-240F $ .75	Order No. DP6F $ .75	Order No. DP7F $ .75	Order No. DP8F $ .75

MINI DIN CONNECTORS

	3 Pin	4 Pin	5 Pin	6 Pin	7 Pin	8 Pin
IN-LINE MALE	Order No. EMA3 $1.12	Order No. EMA4 $1.12	Order No. EMA5 $1.12	Order No. EMA6 $1.12	Order No. EMA7 $1.12	Order No. EMA8 $1.12
IN-LINE FEMALE	Order No. EML3 $2.38	Order No. EML4 $2.38	Order No. EML5 $2.38	Order No. EML6 $2.38	Order No. EML7 $2.38	Order No. EML8 $2.38

Y CABLE ADAPTERS

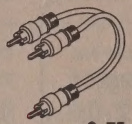
RCA PLUG TO 2 RCA JACKS



Shield Y cable
Black PVC jacket
Fully molded

60-419.....6".....$ .75

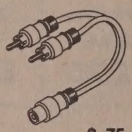
RCA PLUG TO 2 RCA PLUGS



Shield Y cable
Black PVC jacket
Fully molded

60-420.....6".....$ .75

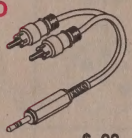
RCA JACK TO 2 RCA PLUGS



Shield Y cable
Black PVC jacket
Fully molded

60-421.....6".....$ .75

1/8" STEREO PLUG TO 2 RCA PLUGS



Shield Y cable
Black PVC jacket
Fully molded

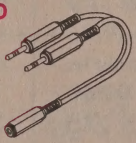
60-422.....6".....$ .99

1/8" STEREO PLUG TO 2 RCA JACKS

Shield Y cable
Black PVC jacket
Fully molded

60-423.....6".....$ .99

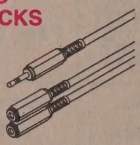
1/8" STEREO JACK TO TWO 1/8" STEREO PLUGS



Shield Y cable
Black PVC jacket
Fully molded

60-424.....6".....$ .99

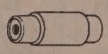
1/8" STEREO PLUG TO TWO 1/8" STEREO JACKS



Shield Y cable
Black PVC jacket
Fully molded

60-425.....6".....$ .99
60-426.....6ft.....$1.25

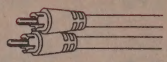
RCA DOUBLE FEMALE



60-488.....Female.....$ .75

RCA TO RCA COAXIAL CABLE

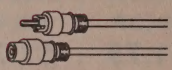
75 ohm low loss RG59/U
Fully molded connectors



60-459.....6ft.....$1.25
60-460.....6ft Gold.....$1.55
60-461.....12ft.....$1.65

RCA PLUG TO RCA JACK

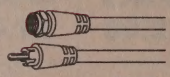
Shield audio cable
Black PVC jacket
Fully molded



60-432.....6ft.....$ .99

RCA PLUG TO "F" PLUG

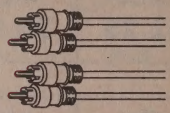
75 ohm low-loss RG59/U.
Fully molded nickel plugs.



60-458.....6ft.....$1.49

2 RCA PLUGS TO 2 RCA PLUGS

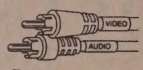
Shield patch cable
Black PVC jacket
Color coded



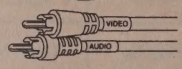
60-464.....6ft.....$1.89

VIDEO PATCH CABLES

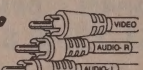
Mono



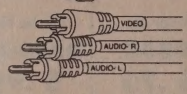
GOLD



Stereo



Low-loss shielded VCR dubbing cables. Color coded gold plated RCA connectors. Fully molded construction. Black PVC jacket.



60-465.....6ft Mono.....$1.99
60-470.....12ft Mono.....$2.49
60-471.....6ft Stereo.....$2.49
60-466.....12ft Stereo.....$3.99

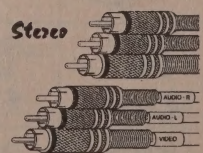
PREMIUM VIDEO PATCH CABLES

Mono

GOLD

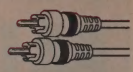
High-grade premium VCR dubing cables suitable for DSS satellite installations. Color coded gold plated RCA connectors. Single RG59 plus two spiral shielded-audio connectors.

Stereo

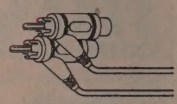


60-469.....6ft Mono.....$4.49
60-468.....12ft Mono.....$5.95
60-467.....6ft Stereo.....$6.95

2 RCA PLUGS TO 2 RCA PIGGYBACK



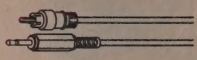
Shielded patch cable. Permits 2 stereo connections on one set of auxiliary jacks. Color coded.



60-462.....6ft.....$2.95

RCA PLUG TO 1/8" MONO PLUG

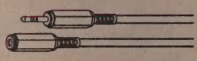
Shield audio cable
Black PVC jacket
Fully molded



60-429.....6ft.....$1.49

1/8" STEREO PLUG TO 1/8" STEREO JACK

Shield audio cable
Black PVC jacket
Fully molded



60-431.....6ft.....$1.49

RCA MALE TO BNC MALE CABLE

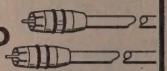
4 foot, super flex, clear jacket, 85% copper shielded RG-58U, 50 ohms.

60-395.....$3.25

MONSTER CABLE®

RCA PLUG TO RCA PLUG

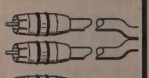
GOLD



Monster Standard™ SV1
Standard linear bandwidth 75 ohm video cable. Low density structured dielectric for low loss signal transfer. Fine-stranded center conductors for increased flexibility. 24K gold contact, heavy- duty molded RCA connectors.

36-364.....12ft.....$2.49

2 RCA PLUGS TO 2 RCA PLUGS

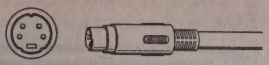


Monster Standard™ Interlink® 100
High performance shielded audio interconnecting cable. 100% foil shield reduces noise and interference. Special low density, structured matrix, foamed dielectric for low signal transfer. Side-by-side construction for easy installation of both left and right channels. 24K gold contact, heavy-duty molded RCA connectors.

GOLD

36-365.....12ft.....$7.95

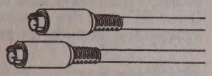
S-VHS VIDEO CORD



Oxygen free cable with strain relief. Male to male. Used in super VHS VCR's, camcorders and several TV's and laser disc players.

60-400.....4ft.....$2.99
60-480.....25ft.....$6.99

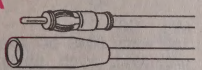
S-VHS CABLE



Gold plated S-VHS plug to plug. Fully shielded-flexible PVC jacket. Suitable for DSS Satellite installations along with Super-VHS VCR's, DSS receivers, camcorders and video disc players.

60-433.....6ft.....$3.49
60-434.....12ft.....$4.49

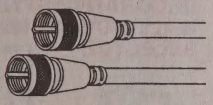
AUTO-ANTENNA EXTENSIONS



75 ohm low loss RG59/U. Fully molded nickel plated connectors.

60-435.....6ft.....$3.99

UHF COAXIAL CABLES



UHF plug to UHF plug
Fully molded nickel plated connectors

RG58/U 50 OHM LOW LOSS

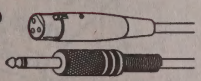
60-448.....3ft.....$2.75
60-449.....6ft.....$2.99
60-450.....12ft.....$3.49

MINI RG8X

60-451.....3ft.....$3.49
60-452.....6ft.....$4.25
60-453.....12ft.....$5.49
60-454.....50ft.....$16.99

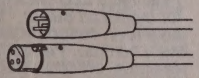
MICROPHONE CABLES

1/4" MONO PLUG TO 3 PIN XLR JACK



60-436.....20ft.....$9.95

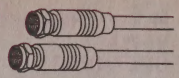
3 PIN XLR PLUG TO 3 PIN XLR JACK



60-354.....20ft.....$9.95

Both cables constructed of nickel-plated Zinc-Alloy XLR connectors, fully shielded low-loss heavy gauge cable and black flexible rubber jacket.

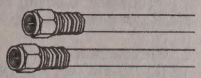
RG-6 "F" CABLES



75-Ohm RG6/U High definition cables. Suitable for DSS, C/KU satellite installations. Fully molded "F" connectors.

60-402.....3ft.....$1.49
60-403.....6ft.....$1.99
60-404.....25ft.....$3.99
60-405.....50ft.....$6.95
60-406.....100ft.....$12.95
60-463.....150ft.....$17.95

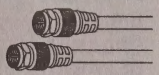
WEATHER RESISTANT RG6/U "F" CABLES



75 ohm RG6/U UL-AWM Professional "F" cables suitable for DSS, C/KU Satellite installations. Precision machined brass "F" connectors. Anti-corrosion yellow-chromate plated weatherproof O-ring-silicone compound.

60-437.....25ft.....$5.99
60-438.....50ft.....$9.95
60-439.....75ft.....$14.95
60-440.....100ft.....$19.49
60-441.....150ft.....$27.95

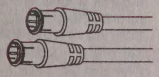
"F" TO "F" COAXIAL CABLE



75 ohm low loss RG59/U. Fully molded "F" connectors

60-442.....3ft.....$ .75
60-443.....6ft.....$ .99
60-444.....50ft.....$6.49
60-445.....100ft.....$12.95

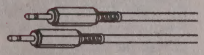
QUICK "F" TO QUICK "F" CABLE



75 ohm low loss RG59/U. Fully molded connectors

60-446.....3ft.....$ .75
60-447.....6ft.....$ .99

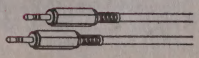
1/8" MONO PLUG TO 1/8" MONO PLUG



Shield audio cable
Black PVC jacket
Fully molded

60-428.....6ft.....$1.25

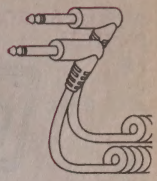
1/8" STEREO PLUG TO 1/8" STEREO PLUG



Shield audio cable
Black PVC jacket
Fully molded

60-430.....6ft.....$1.49

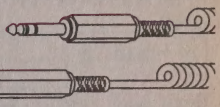
ELECTRIC GUITAR CABLE



1/4" mono plug to 1/4" mono plug.
Guitar replacement cable.

60-455.....25ft coiled.....$2.99

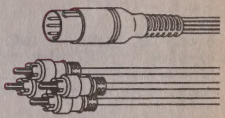
STEREO EXTENSION CABLE



1/4" stereo plug to 1/4" stereo jack.

60-456.....25ft coiled.....$2.75

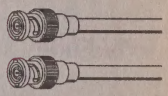
5 PIN DIN PLUG TO 4 RCA PLUG



5 pin din plug to 4 RCA plugs. Connects tape decks and receivers with 5 pin din to equipment with standard RCA connectors.

60-457.....6ft.....$2.25

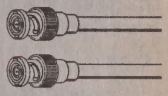
BNC MALE TO BNC MALE CABLE



Shielded RG-59U
75 ohms

60-298.....3ft.....$2.99
60-299.....6ft.....$3.25
60-300.....12ft.....$4.95
60-204.....25ft.....$6.95

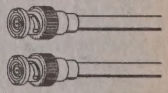
BNC MALE TO BNC MALE CABLE



Shielded RG-58
50 ohms

60-232.....3ft.....$2.99
60-233.....6ft.....$3.25
60-234.....12ft.....$4.95
60-235.....25ft.....$6.95
60-381.....50ft.....$8.95
60-382.....100ft.....$12.95

20FT BNC COAX CABLE



20ft. RG62/U 93 ohm cable pre-assembled with a BNC male connector on each end. For Arcnet and IBM 3270 networks.

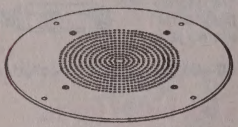
60-297.....$1.99

8" PUBLIC ADDRESS SPEAKER SYSTEM

10" sq. with 8" speaker
3" deep, 8 ohm, 15 watt max
Premounted 70.7V, 10 watt transformer
Preassembled for fast installation.
Recessed plastic ceiling diffuser battle.

13-225.....**$13.25**

CEILING SPEAKERS



Mfg. - CSI
8 ohm 8" speakers with line transformers mounted on a 13" white metal grill and wired. Mounts in a 8" hole. 6 oz magnet weight. Freq response: 85-15,000 Hz. White.

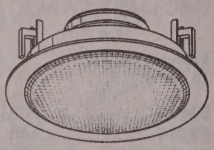
70 volt 10 watt transformer

13-360.....**$17.49 ea**

WITH VOLUME CONTROL
70/25 volt 5 watt transformer

13-361.....**$22.95 ea**

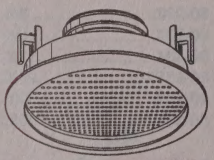
CEILING SPEAKERS



Mfg. - CSI
9"(dia) x 2-3/4"(D)
Mounts in a 7-3/4" hole
8 ohm, 35 watts RMS, **70 watts** max
6" coaxial ceiling speaker with mounting tabs for easy installation. Freq response: 63-20,000 Hz. 1/2" mylar dome tweeter. White rim and white grill.

13-388.....**pr/$54.95**

RECESSED CEILING SPEAKERS

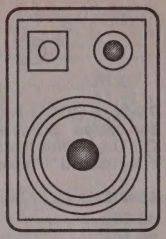


Mfg. - CSI
7-3/4"(dia) x 3-1/2"(D)
Mounts in a 6-3/4" hole
8 ohm, **40 watts** max
5" coaxial ceiling speaker with recessed reversible grille and mounting tabs for easy installation. Freq response: 70-20,000Hz. 1/2" mylar dome tweeter. White rim.

13-383.....White Grill.....**pr/$49.95**

13-384.....Black Grill.....**pr/$49.95**

HOME THEATER IN-WALL SPEAKERS



Mfg. - CSI
Enjoy true high fidelity stereo sound. Mounts flush to wall or ceiling. Architecturally designed to blend into any decor. Manufactured with all weatherproof materials. Frame and grille are finished in white (paintable). Soft dome tweeter with 1" voice coil and level control. 8ohm impedance. 50-20,000 Hz freq response. 90dB SPL. Full crossover networks and thermal circuit breakers for tweeters. Includes all mounting hardware, painting mask and cut out template along with easy to follow instructions.

6" Polycarbon Woofer
12"(L) x 8-5/8"(W) x 3-1/4"(D)
Mounts in a 11"(L) x 7-1/2"(W) hole
10oz magnet, 40 watts RMS, **50 watts** max
2,500Hz crossover frequency

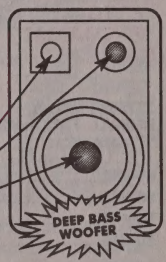
13-385.....**$29.95 ea**

8" Polypropylene Woofer
14"(L) x 10"(W) x 3-3/4"(D)
Mounts in a 12-5/8"(L) x 8-5/8"(W) hole
13oz magnet, 60 watts RMS, **80 watts** max
2,200Hz crossover frequency

13-386.....**$57.95 ea**

the Concert Series

PIVOTAL IN-WALL SPEAKER WITH SEPARATE VOLUME CONTROL



Mfg. - CSI
Bring the ultimate in high fidelity and true home theater sound into any room. Manufactured with all weatherproof materials. Frame and grille are finished in white (paintable). Pivotal tweeter with separate volume control and circuit breaker. 8 ohm, 90dB SPL. Includes all mounting hardware, painting mask, cut out template and pre-constructed brackets along with easy to follow instructions.

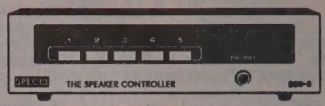
6" Polycarbon Woofer
12"(L) x 8-5/8"(W) x 3-1/2"(D)
Mounts in a 11"(L) x 7-1/2"(W) hole.
60 watts RMS, **80 watts** max
Frequency response: 40Hz - 20KHz. 2500 Hz crossover frequency.

13-358.....**$64.95 ea**

8" Polypropylene Woofer
14"(L) x 10"(W) x 4"(D)
Mounts in a 12-5/8" x 8-5/8" hole.
80 watts RMS, **100 watts** max
Frequency response: 35Hz - 20KHz. 2000 Hz crossover frequency.

13-359.....**$79.95 ea**

STEREO SPEAKER SELECTOR BOX

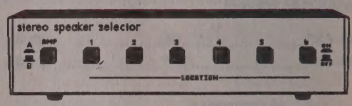


8" x 4" x 2-1/2"

Mfg. - SPECO
50 watts RMS per channel. Circuit breaker protected. Headphone jack for monitoring. Switch On or Off up to five speakers simultaneously or individually. Impedance matching.

13-306.....**$36.95**

STEREO SPEAKER SELECTOR BOX

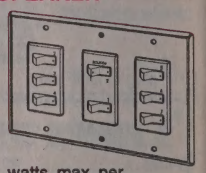


14" x 7" x 2-3/4"

Mfg. - CSI
180 watts RMS per channel. Circuit breaker protected. High power 2 amplifier input. Controls 6 pairs of speakers. Output switching from amplifier A or B to 6 independently controlled pairs of speakers. Impedance matching.

13-308.....**$109.95**

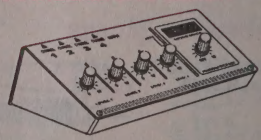
DECORATIVE STYLE STEREO WALL MOUNT SPEAKER SELECTOR



Mfg. - SPECO
75 watts RMS, 150 watts max per channel. Controls up to 7 pairs of speakers with heavy duty rocker switches complete with heavy duty triple gang plate. Maintains impedance of 4, 8 and 16 ohm speakers. 2 amplifier inputs. White.

13-357.....**$99.00**

4 CHANNEL MICRO MIXER



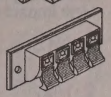
6-1/2"(L) x 4"(W) x 2"(H)
Features a LED peak level indicator. 1/4" plug for input and output. Each channel has variable level control. Output also has a master level control. Perfect for use for surveillance systems in conjunction with cameras with audio and quad splitters. S/N ratio >55 dB. Freq response: 20-20,000 Hz. Impedance: Input >22 Kohm, Output >10 Kohm. Output level: 2.1V RMS. Power supply included (9V battery optional).

75-292.....**$44.95**

SPEAKER TERMINALS

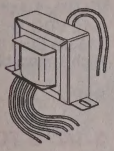
High quality plastic construction. Color coded. Push button insert wire.

Dual
2-1/8" x 13/16"
DPT.....$ .25



4 Terminal
2-3/4" x 13/16"
74-442.....$ .45

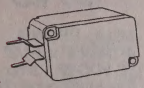
LINE MATCHING TRANSFORMER



8 ohms
Full freq. response 70.7 line input. Isolated windings Primary taps: .63, 1.25, 2.5, 5 & 10 watts.

56-254.....$3.25

SPEAKER CIRCUIT BREAKERS



Auto Reset
Interrupts circuit when over-loaded with max current then resets when temp drops back to normal.

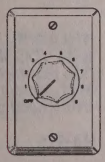
Part#	Rating	Price
12-136	.85A 60W	$ .99
12-164	1.25A 85W	.99
12-162	1.75A 125W	.99
12-163	2.5A 200W	.99

L-PADS

Used to adjust the relative volume of individual drivers in a speaker system. Maintains a constant 8 ohm impedance.

Part#	Type	Price
13-194	15Watt Mono	$2.99
13-240	15Watt Stereo	4.55
13-294	30Watt Mono	3.25
13-196	50Watt Mono	5.99
13-197	50Watt Stereo	9.49
13-199	100Watt Stereo	10.99

DECORATIVE WALL MOUNT VOLUME CONTROL



MONO

Part#	Watt	Plate Type	Line/ Volt	Ohm	Price
WAT-10W	10	White/Plastic	70/25	--	$18.99
WAT-10-8	10	Stain/Steel	----	8	18.25
WAT-25	25	Stain/Steel	70/25	--	20.95
WAT-25-8W	25	White/Plastic	----	8	20.95

STEREO

WAT-10D	10	Stain/Steel	70/25	--	$28.95
WAT-10D-8W	10	White/Plastic	----	8	29.95
WAT-25D	25	Stain/Steel	70/25	--	34.95

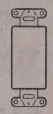
VOLUME CONTROL ATTENUATOR

10 watt
10 step - 70 volt
13-258.....$16.95

25 watt
10 step - 70 volt
13-259.....$19.95

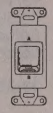
25 watt stereo
10 step - 8 ohm
13-257.....$31.95

3-WAY SPLITTER



13-260.....$7.99

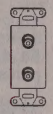
A/B SWITCH



Control two amplifiers

13-261.....$14.95

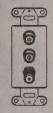
DUAL RCA CONNECTORS



Gold plating

13-265.....$5.99

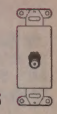
DUAL RCA AND SINGLE COAX (F) CONNECTORS



Gold plating

13-264.....$5.99

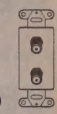
SINGLE COAX (F) CONNECTOR



Gold plating

13-269.....$4.75

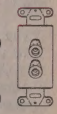
DUAL COAX (F) CONNECTORS



Gold plating

13-266.....$5.99

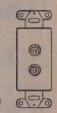
GOLD PLATED BINDING POSTS



Standard plastic connector
13-263.....$6.99

Heavy duty metal connector
13-262.....$8.99

SINGLE SET OF BANANA JACKS



Gold plating

13-268.....$5.99

DUAL SET OF BANANA JACKS

Gold plating

13-267.....$7.95

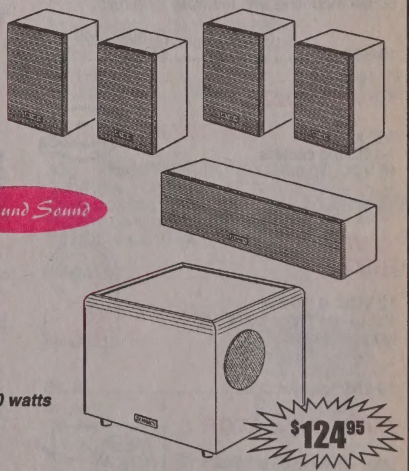
HEAVY DUTY METAL DECORA PLATE/WHITE

With screws

13-270.....Single.....$2.40
13-271.....Double.....$3.49
13-272.....Triple.....$4.49

JENSEN

HOME THEATER SURROUND SOUND SYSTEM



Mfg. - JENSEN, #CS608
10 to 70 watts recomended amplifier power
50 to 20kHz usable frequency response
8 ohms impedance (nominal)

This full range home speaker systems includes:

Surround Sound

Two front satellite speakers
Fill in the off-screen sound you normally can't hear with ***70 watts***

Two rear surround sound speakers
Reproduce the background sounds for special effect with ***70 watts***

One center channel speaker
Reproduces dialogue on the screen, ***100 watts***

One 8" POWERED subwoofer amplifier
For deep bass, ***50 watts***

$124.95

This complete system brings the movie theater experience home by giving you spatial reproduction of film and TV sound effects. Easy step-by-step installation instructions included.

CS608.....$124.95

12 VDC BUZZER

7/8"dia x 1/2"
6-16 VDC @ 10 mA
Min. 80 dB @ 30 cm
Frequency 3.5 ± .4 KHz

PC PIN TYPE
13-352.....$1.35

LEADWIRE TYPE
13-353.....$1.35

12 VDC PIEZO BUZZER

7/8" x 1/2"
3-16 VDC @ 15 mA
15 mA. Min. 90 dB.
Frequency 3.3 ± .5 KHz.
Leadwire terminal.

	(1-99)	(100-Up)	(1K-Up)
13-355.....	$1.49	$1.25	$ .95

12 VDC MINI BUZZER

7/8" x 5/8" x 9/16"
12 VDC @ 25 mA,
75 dB, Ivory

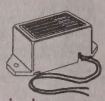
13-252.....$ .99

24 VDC MINI BUZZER

7/8" x 5/8" x 9/16"
24 VDC @ 25 mA,
75 dB, Ivory

13-274.....$ .49

12 VDC BUZZER



7/8" x 5/8" x 9/16"
6-16 VDC @ 20 mA
Min. 85 dB @ 20 cm.
Screw mounting with leadwire terminals.

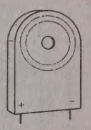
	(1-99)	(100-Up)
13-354.....	$1.75	$1.59

12 VDC BUZZER

7/8" x 1/4"
1-1/8" mtg centers
12 VDC, 10 mA

13-367.....$ .99

12 VDC BUZZER



12 VDC @ 10 mA
1"(L) x 1/4"(W) x 1-1/4"(H)
Ivory, pc leads.

13-356.....$ .75

AUDIO INDICATOR

Mfg. - PROJECTS UNL.
Mfg.# - X40W12
3-1/3" x 2-3/8"
3-20 VDC, Freq. 3300 Hz
90-110 dB, 5" color-coded wires

13-146.....$1.25

SONALERT TYPE BUZZER

1-3/4" x 1-3/4" deep
4-28 VDC @ 15 mA
95 dB, Black, panel mount
Continuous tone
Frequency 2.9 KHz ± 0.5%

13-161.....$4.95

SONALERT TYPE BUZZER

Mfg. - PANASONIC
Mfg.# - EAL-129A
1-5/8" x 1-1/4" deep
3-14 VDC @ 2 mA

13-295.....$2.99

12 VDC BUZZER

Mfg. - MURATA ERIE
Mfg.# - PKB8-4A0
15/16"dia x 5/8" H
70 dB @ 1M @ 12 VDC @ 10 mA
Self contained alarm with internal circuitry. PC board mountable.

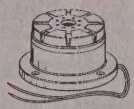
13-392.....$1.49

12 VDC SUPER BUZZER

1-1/2" dia x 15/16" T
12 VDC @ 10mA
90 dB. Produces clear penetrating sound. 5" leads.

13-369.....$1.75

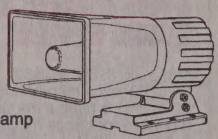
ALARM BUZZER



Mfg.# - SQ-8543H-12
3-3/8"(dia) x 1-5/8"(D)
12 VDC @ 65 mA
SPL (10ft): 95dB BA (min)

13-395.....$1.99

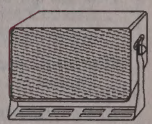
WEATHERPROOF ALARM SIREN



6-12 VDC @ 1.75 amp
30 watts, 120 dB
Heavy duty white ABS plastic. Bracket pivots to 90°. Dual tone warbling and steady. Indoor/Outdoor (Weatherproof).

13-351.....5" x 8".....$19.95

3 WAY WEATHERPROOF SPEAKER SYSTEM

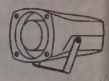


7-1/4" x 4-1/2" x 4-3/8"
8 ohm, 50 watt max
Each speaker contains 4" 10 oz polypropylene woofer, 2" midrange and 1" dome tweeter. 55-20,000 Hz freq response. Die cast enclosure. Complete with mounting bracket, wire and hardware.

sold in pairs only
13-323.....White.....pair/$54.95
13-324.....Black.....pair/$54.95

PIEZO SIRENS

1-5/8"



1-5/8" x 2-1/4" x 1-1/2"
6-12 VDC @ 170 mA
110 dB high frequency "chirping"
High impact black ABS plastic, metal bracket

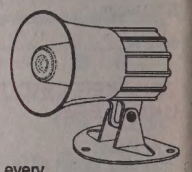
SSP-1.....$7.95

2-1/4"

2-1/4" x 1-1/2"
6-12 VDC @ 300 mA
115 dB Euro high-low pitch
High impact black ABS plastic, metal bracket.

SSP-2.....$9.95

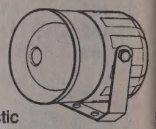
3-1/2" 6 TONE SIREN



Mfg.# - PS-386A
4-1/4" x 4" x 3-1/2"
12 VDC @ 1 amp
6 unique sound change every 5-6 seconds. Compatible with most alarm systems. Heavy duty black weatherproof ABS plastic

13-390.....$9.95

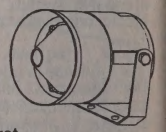
3-5/8"



3-5/8" x 3-1/4" x 3-5/8"
6-12 VDC @ 300 mA
120 dB high freq "warble"
High impact black ABS plastic

SSP-3.....$12.95

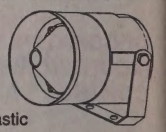
4-1/8"



4"(L) x 4-1/8" (dia)
6-14 VDC @ 900mA
30 watt, 120 dB
Warble or steady tone
High impact ABS plastic
With metal mounting bracket

13-374.....White.....$6.95

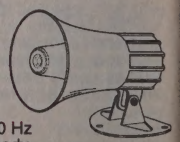
4-1/8"



4" x 4-1/8"
6-14 VDC @ 900mA
120 dB warble tone
High impact black ABS plastic
With metal bracket

13-375.....$6.95

5" ALARM SIREN



6-12 VDC @ 500 mA
15 watts, 115 dB
Freq response: 800-1200 Hz
1.5 cycles/sec yelp & steady
Heavy duty white weatherproof ABS plastic

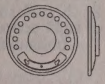
13-275.....$10.95

MINI MYLAR CONE

1" dia. x 3/8" D (ROUND)
8 ohm, .1 watt
Freq. response: 700-3500 Hz

13-184.....$ .75

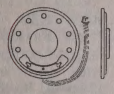
ULTRA THIN



1-13/16" dia x 3/8" D (ROUND)
8 ohm, 1.5 watt, Paper cone

13-347.....$ .99

LOW PROFILE MYLAR



3/4"dia x 5/32"D (20x3.5mm)
8 ohm, .1 watt, Mylar cone
Samarium cobalt magnet
1-1/2" wire leads

13-397.....$ .99

PAPER CONE SPEAKERS

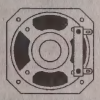
ROUND

2" dia. x 11/16" D
8 ohm, .25 watt
13-398.....$ .99

2-1/4" dia. x 3/4" D
8 ohm, .2 watt
13-341.....$ .99

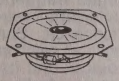
2-5/8" dia. x 1" D
8 ohm, 1.5 watt
13-343.....$ .99

SQUARE



2-5/8" dia. x 3/4" D
8 ohm, .3 watt
13-243.....$ .99

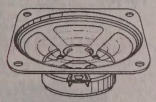
2" SPEAKER



Mfg. - PANASONIC
Mfg.# - EAS-5PH01J
2" sq. x 3/4", 4 ohm, 2 watt
1/2" aluminum voice coil

13-291.....$ .99

8 OHM 10 WATT POLYPROYLENE



3-1/2"sq x 1-5/16" deep
2-3/8"dia magnet

13-377.....$1.99

8 OHM 10 WATT 4" SPEAKER

Mfg. - DANA
4" speaker in a 4-3/4" frame
3-3/8" mounting centers
1-3/4" deep, 2-3/8" dia magnet
3/4" dia aluminum voice coil

13-344.....$2.49

MINIATURE AUDIO TONE TRANSDUCER

Mfg. - MATSUSHITA, #12RT04CC
5/16" dia. x 17/32" H
Use in circuits where audio signal or microprocessor clock already exists to create an audible tone. PC mount.

(1-99) (100-Up)
13-126.....$ .25.....$ .12

MINIATURE AUDIO TRANSDUCER

Mfg. - STAR
Mfg.# - QMB-06
5/8" x 1/2", 3-12 VDC operating voltage (40 mA). Coil resistance 30 ohm. Coil impedance 100 ohm. Sound output 85 dB. Resonant frequency 2048 Hz. Sealed against wave solder contamination.

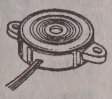
13-329.....$ .49

MYLAR SPEAKER

Mfg. - INTERVOX
Mfg.# - SHR-4100
1-1/8"dia x 3/8"
8 ohm, .2 watt, 1200 Hz freq response. Low profile, mylar cone. PCB mountable, wave solderable.

(1-99) (100-Up)
13-394.....$ .99.....$ .75

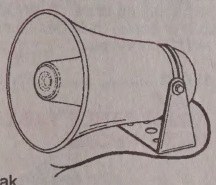
AUDIO TRANSDUCER



Mfg. - PROJECTS UNLIMITED
Mfg.# - AT-12M
1" dia. x .165"H
Flange mount 1.14" on ctr.
Resonant freq 6000 Hz, freq range: 4500-7500 Hz. Sound pressure level 68-70 dB voltage (Vpp) 1-3. No electronics, transforms AC voltage to sound pressure waves when stimulated with a sound pressure wave.

13-142.....$ .35

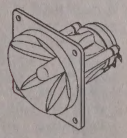
WEATHERPROOF ALARM SPEAKER



8"dia x 8" deep
8 ohm 30 watts peak
Weatherproof school bus yellow high impact ABS plastic cone, metal body. Very high quality.

13-379.....$12.95

PIEZO TWEETER



Motorola# KSN1005A
3-3/8" x 3-3/8" x 2-5/8"
Hole: 3", 20-30 volts
Approx. 50 watts. Will produce crisp, clean highs.
Impedance 1000 ohms at 1 KHz, over 20 ohms at 40 KHz. No crossover required.

KSN1005A.....$3.95

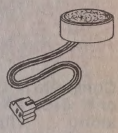
MINIATURE CONDENSER MICROPHONES

Mfg. - PRIMO
3/8" dia. x 5/16"
3-15 VDC @ 50 mA
Works great in any circuit, high or low impedance. Will replace mic's in phones, walkie talkies, tape recorders, etc. Extremely sensitive, great fidelity.

MIKE-ET.....$ .35

Mfg. - NATIONAL
Mfg.# - WM-034CX
3/8" dia. x 1/4"
4.5 - 10 VDC @ 80 mA
Omni-directional
Freq response: 20 -16,000 KHz
Built-in FET pre-amp

13-273.....$ .65



Mfg. - PANASONIC
Mfg.# - WM-52BH503
3/8" dia x 3/16", 2-1/2" lead
1.5 - 10 VDC @ 30mA
current, omni - directional.
Freq response: 20 -16,000 KHz
Built-in FET pre-amp

13-368.....$ .69

Mfg. - PANASONIC, #WM-54B
3/8" dia. x 1/8"
Omni-directional
2.5-10 VDC @ 50 mA.
>40 dB sensitivity,
Freq response: 20 -16,000 KHz.
Built-in FET pre-amp

(1-99) (100-Up)
13-302.....$ .89.....$ .75

1/4" dia. x 3/16" **Ultra Mini**
Omni-directional fet mic
2-10 VDC @ 50 mA
Freq response: 50 Hz - 16 KHz
High sensitivity. Ultra small size

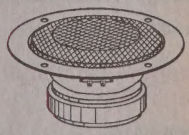
13-175.....$1.00
13-303.....With 3" wire.....$1.00

AUDIO TRANSDUCER

Mfg. - KINGSTATE, #KPE-117
1-1/4" dia. x 3/8"
Resonant freq 2500 Hz
Current consumption: 1.5 mA
30 VDC max, 97 dB

13-251.....$ .49

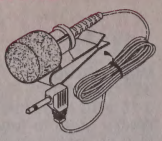
5" MIDRANGE W/GRILL



8 ohm
70 watts max
10 oz magnet
Freq response: 800 Hz-10 KHz
Sealed back design replacement speaker for MTX Road Thunder speaker system.
#'s MTZ55HB, MTX445B & Pioneer #FD10DP61-56F-Q.

13-207.....$6.50

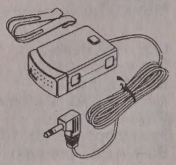
LAVALIER MICROPHONE



Mfg. - GE
Omnidirectional electret condenser microphone comes with visor clip. Cord has a 3.5mm plug. 50-18,000 Hz frequency response. -68 dB sensitivity.

13-305.....10ft **$2.99**
13-312.....18ft **$2.99**
13-393.....2.5mm Plug ..12ft **$3.49**

MICROPHONE



Mfg. - AT&T
2" x 1-3/8" x 3/4"
Comes with visor clip and a 6ft cord with a 2.5mm jack. Features a push to talk button and comes with a visor clip.

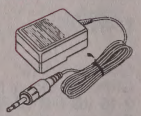
19-133.....**$1.49**

HANDS FREE MICROPHONE FOR CELLULAR TELEPHONE

Complete with two clips, one visor and one lapel along with velcro mounting/square. This mic has a standard 3.5mm (1/8") right angle plug and 15 ft long cord. Omni-directional electret mic. 3-10 VDC operating voltage.

13-396.....**$ .99**

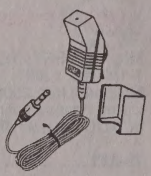
ELECTRET MICROPHONE



1-5/16" x 15/16" x 5/8"
Black microphone has a 6ft cable and a 3.5mm jack. Velcro mtg square on back. Case has ample room to mount projects inside. It houses only the 3/8" dia microphone.

13-371.....**$ .99**

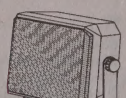
MULTIMEDIA MICROPHONE



Mfg. - MEDIA VISION
This omnidirectional electret microphone is ideal for voice and sound input into your multimedia applications. 7ft cord with a 1/8" stereo jack. Includes a stand with double face tape for mounting.

13-345.....**$1.99**

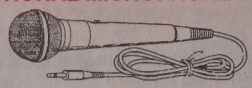
WEATHERPROOF SPEAKER



Mfg. - AT&T
3" x 2" x 2-1/2"
8 ohm 3 watt
Black plastic housing with a swival mounting bracket.
4-1/2ft cord with a 3.5mm (1/8") plug.

13-169.....**$8.95**

UNIDIRECTIONAL MICROPHONE



8" long,
2" dia head 10' cable with 1/8" jack 600 ohm impedance. High impact ABS plastic body. Features on-off switch.

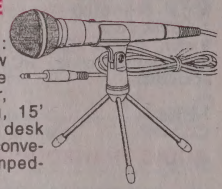
19-137.....**$5.95**

COMMUNICATIONS MICROPHONE

Mfg. - TRANS VIDEO
500 ohm, dynamic mylar cone with output control thumb wheel switch. Prewired (3 wires and a shield) to a standard 4 pin female mic plug. Has a rugged black plastic case with a 5ft (extended) neoprene coil cord.

19-138.....**$5.95**

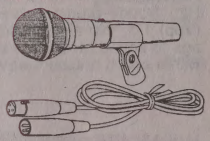
UNIDIRECTIONAL DYNAMIC MICROPHONE



Dual impedance: high 50K ohm low 600 ohm Complete with stand adapter, 1/4" phone plug, 15' cable and tripod desk stand. Features convenient ON/OFF, impedance switch.

19-124.....**$19.95**

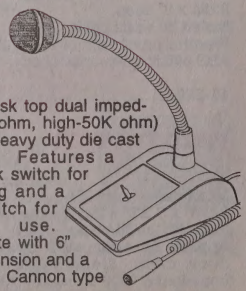
PRO UNIDIRECTIONAL DYNAMIC MICROPHONE



This low impedance 600 ohm black finish pro mic comes in a custom carrying case. 3 pin XLR connectors with 20ft of cable. Includes stand adapter & optional 1/4" phone plug.

19-123.....**$44.95**

ADJUSTABLE TABLE STAND MICROPHONE



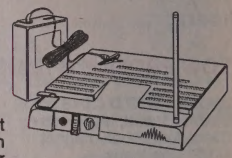
Professional desk top dual impedance (low-600 ohm, high-50K ohm) is enclosed in heavy duty die cast zinc housing. Features a momentary talk switch for priority paging and a lock down switch for continuous use. Comes complete with 6" gooseneck extension and a 5' coil cord with Cannon type XLR connector.

19-125.....**$69.95**

WIRELESS MICROPHONE SYSTEMS

Mfg. - NADY
Each system comes with receiver (4-3/8" x 4-13/16" x 1-1/4") and your choice of transmitters and AC/DC adapter. 120 dB dynamic range. 25-20,000 Hz frequency response. 1500 line of sight operation, 200 feet adverse conditions. The transmitter is powered by a 9V battery.

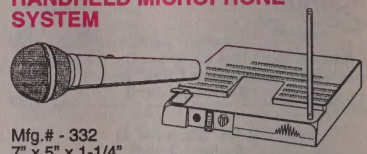
LAVALIER BODYPACK SYSTEM



Mfg.# - 331
7" x 5" x 1-1/4"
Rugged compact body pack with attached lavalier microphone. Features input level control and low battery indicator.

19-105.....**$249.95**

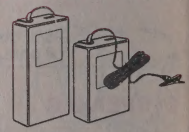
HANDHELD MICROPHONE SYSTEM



Mfg.# - 332
7" x 5" x 1-1/4"
Compact and tapered all metal design. Features input level control and low battery indicator. YD-04 Dynamic element virtually identical to Shure SM-58.

19-106.....**$279.95**

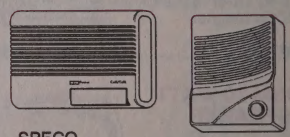
FOR VIDEO CAMCORDERS AND CAMERAS



Mfg.# - 151VR
2-1/2" x 1-1/4" x 5-5/8"
Operates on VHF high band frequencies for interference-free performance. Compatible with all camcorders and video cameras. Audio output and headset connectors are 3.5mm plugs. Audio and transmit switch on transmitter. Adjustable input level. System includes transmitter with attached lavalier microphone and receiver with belt clip.

19-107.....**$149.00**

WEATHERPROOF INTERCOM



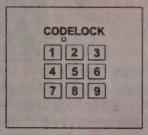
Mfg. - SPECO
Outdoor station: 2-3/4"(L) x 1"(W) x 3-5/8"(H)
Inside unit: 4-1/2"(L) x 3-1/4"(W) x 1-1/4"(H)
Can use existing doorbell wiring and ring existing doorbell. Also will work with alarm panels. Built-in electronic chime. Two wire hook-up. 12 VDC operation.

19-122.....**$29.95**

CODE LOCK

Defines more than 3000 codes

7pc Kit *New*



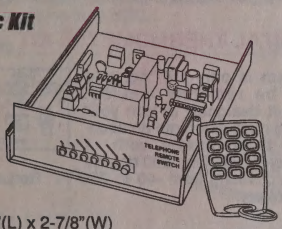
11/16"(L) x 1-13/16(W)
witch a car alarm or open a door lock. LED n the face panel indicates the position of the ock". Code is easy to define. Operation anel is completely enclosed - ideal for in and utdoor use. Relay contact rating: 5A/200V. uns on 9-15 VDC @ 40 mA. .3 µA output. equires assembly and electronic knowledge. ifficulty level - *NOVICE*.

6400.....$29.95

REMOTE CONTROL BY TELEPHONE

New

4pc Kit

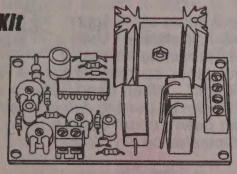


1/2"(L) x 2-7/8"(W)
urn on or off up to 3 devices. Check condi-ons of NO or NC switch. Turn lights on or off y phone. Check home or office alarm sys-m. Turn on heat before arriving home. rotected by user-defined code. Requires no onnection to the telephone line. Receiver is witched on and off by letting the phone ring 8 times (selectable). 42 different codes can e set. Switch off timer can be set from 3 econds to 56 hours. Requires 12 VDC regu-ted @ 90 mA. Requires assembly and elec-onic knowledge. Difficulty level - *EXPERT*.

6501.....$62.95

DC TO PULSE WIDTH CONVERTER

0pc Kit *New*

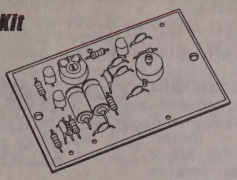


5/16"(L) x 1-7/8"(W) x 1-13/16"(H)
perates 8 to 35 VDC. Max output 6.5 amp. djustable sensitivity: 2.5 to 35 VDC. onverts DC voltage into a series of pulses, o that the pulse duration is directly propor-onal to the value of the DC voltage. Ideal for e accurate control of DC motors, lighting vels, small heaters as well as other applica-ons. Pulse-width modulation (PWM) range: -100%. Adjust PWM frequency from 100 Hz 5 KHz. Power consumption 35 mA min to .5 amp max. Requires assembly and elec-onic knowledge. Difficulty level - *EXPERT*.

8004.....$18.95

FM OSCILLATOR/TRANSMITTER

26pc Kit



New

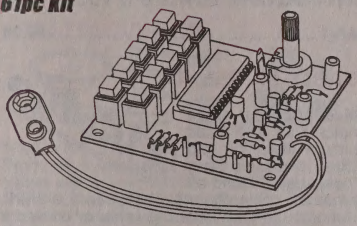
1-13/16"(L) x 2-13/16"(W)
Mini FM modulator (100-108 MHz). Integrated pre-amplifier: 5 mV. Max input signal: 10 mV. Connects to any dynamic microphone (see page 105). Ideal for family broadcasts, baby monitors or security. May be received by any portable FM radio or tuner. Requires 9-12 VDC. Requires assembly and electronic knowledge. Difficulty level - *NOVICE*.

K1771.....$9.95

SOUND GENERATOR

New

61pc Kit

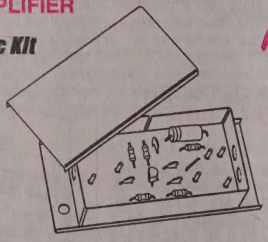


2-13/16"sq
Produces 10 different sounds with speed adjustable: guns, sirens, car engines, explosions, tunes, screeching tires and phaser guns. One output for direct connection to a speaker and one line output for connecting to a mixer panel or amplifier. Push-button keyboard. Requires 8 ohm 1 watt speaker (see pg 106 #13-169 or equal) and 9 volt battery. Requires assembly and electronic knowledge. Difficulty level - *NOVICE*.

K4401.....$24.95

AM/FM ANTENNA AMPLIFIER

23pc Kit *New*



3-3/8"(L) x 1-3/8"(W) x 1"(H)
22 dB gain (10 MHz to 150 MHz)
In/output impedance: 50-75 ohm. Works great to amplify signal especially in areas with deflection due to terrain and buildings. Includes metal case to store amp. Requires 12-15 VDC @ 1-3 mA or power via coax cable. Requires assembly and electronic knowledge. Difficulty level - *NOVICE*.

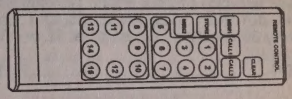
K2622.....$12.95

15 CHANNEL INFRARED TRANSMITTER AND RECEIVER KIT

New

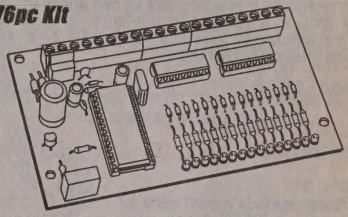
15 independent channels. One key allows you to reset all outputs at once. Requires assembly and electronic knowledge. Difficulty level - *NOVICE*.

37pc Kit



TRANSMITTER 6-7/8"(L) x 7/8"(W)
Features tactile keyboard and aluminum housing. 38 kHz carrier wave frequency with six identification codes. Standby current .1 µA. Housing included. Requires a 9V battery.

76pc Kit



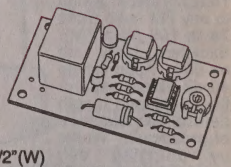
RECEIVER 5-11/16"(L) x 2-13/16"(W)
Built around a microprocessor allowing two output states to be stored in memory. Outputs can be operated separately. Change-over or pulse contact selectable per output. Requires 8-14 VDC.

K6710.....Transmitter.....$49.95
K6711.....Receiver.....$44.95

UNIVERSAL START/STOP TIMER

18pc Kit

New



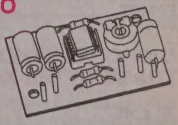
2-11/16"(L) x 1-1/2"(W)
Timer for applications requiring a delay up to 60 minutes. Timer interval adjustable 0-15 minutes (without modifications). Requires 12 VDC @ 55 mA. Requires assembly and electronic knowledge. Difficulty level - *NOVICE*.

K2579.....$10.95

UNIVERSAL MONO PRE-AMPLIFIER

17pc Kit

New

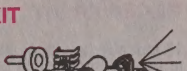


1-3/16" x 1-13/16"
For audio applications where there is insufficient input signal. Use as a microphone pre-amp or for level correction. 1 Kohm output impedance. 20 Hz - 20 kHz ± 3dB freq range. Adjustable output level. 40 mV max input signal. Requires assembly and electronic knowledge. Difficulty level - *NOVICE*.

K1803.....$7.49

Kits come with all necessary components and complete instructions. They require assembly including soldering. Returns on kits will be accepted only on unopened unassembled kits.

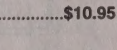
STROBE LIGHT KIT



1-3/4" x 3-1/2"
This strobe light kit is a perfect attention getter. The flash rate of your strobe is adjustable by a 10K pot from 1 flash/second to 1 flash per every 30/seconds. Operates at 12 or 6 Volts.

ST-1.....**$10.95**

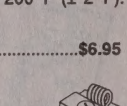
TEMPERATURE CONTROLLER KIT



1-1/8" x 1-3/8"
Use this kit as an electronic thermostat. Monitor temperatures, then when a determined temperature is reached this kit can automatically turn on a heating or cooling unit for you. Temperature ranges from 0 - 200°F (± 2°F). Operates on 6-15 VDC.

TC-1.....**$6.95**

MICRO MINIATURE WIRELESS MIKE KIT



.9" x .3"
Utilizes surface mount parts to make a small but powerful unit. Surface mount parts are installed, all you install are the leaded devices. Super sensitive mike transmits a whisper or a room full of conversation to an FM radio, tunable from 88 to 108 MHz. Transmits up to 1/2 mile. Operates on 6 - 12 VDC.

MMWM5.....**$29.95**

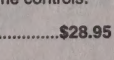
FM STEREO TRANSMITTER KIT

Transmit stereo sound to any FM radio (from 76 to 108 MHz FM). Excellent clarity with no drift. Approximate 40 dB stereo separation. Antenna length determines distance of broadcast. Works by plugging any stereo signal to the RCA jacks on this transmitter. Capable of sending signal to walkmans, from car to camper, through an auditorium, around the neighborhood, etc. Comes equipped with right and left volume controls.

FMST-100.....**$28.95**

ENCLOSURE FOR ABOVE KIT
EFMST.....**$8.95**

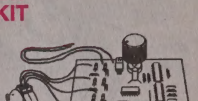
MICRO TELEPHONE TRANSMITTER KIT



.6" x .45"
Utilizes surface mount parts to make a small but powerful unit. Surface mount parts are installed; all you install are the leaded devices. Transmits both sides of a phone conversation up to 1/4 mile to FM radio, tunable from 88 to 108 MHz. If properly installed, unit is undetectable. Phone powered.

MMPT2.....**$24.95**

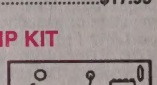
STEPPER MOTOR CONTROLLER KIT



Motor controller kit for bipolar steppermotors. Includes a 7 degree motor. Features 1/2, full or single step, variable speed, reversible, run and hold. LEDs indicate phase sequences. Will drive other 12 VDC stepper motors. Operates on 12 VDC @ 1/2 amp.

17-100.....**$17.95**

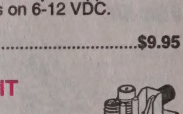
SUPER BIG EAR AMP KIT



1" x 1-3/4"
Super sensitive amplifier kit can hear through walls etc. Couple to a parabolic reflector and pocket radio earphones to hear for blocks. Can be used as a general purpose 1.5 W amp. Supplied with a mini-microphone. Runs on 6-12 VDC.

AA-1.....**$9.95**

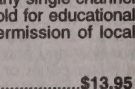
CABLE FILTER KIT



Multi-pole four stage notch filter eliminates picture distortion and the annoying "beep..beep" found on premium cable channels between 2 and 22. Connect between incoming cable or convertor and TV/VCR. Works with or without a cable coverter. Can be used on standard 75 ohm antenna systems to remove any single channel (requires 2 filters). This kit sold for educational purposes only. Requires permission of local cable co. to use.

DF-222.....**$13.95**

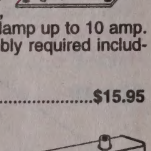
12 VDC POWER CONTROLLER KIT



This kit will control the speed of any 12 VDC motor, fan or will dim any 12 VDC lamp up to 10 amp. 5% to 98% control. Assembly required including soldering.

80-217.....**$15.95**

DTMF DECODER DISPLAY UNIT

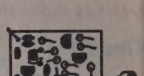


3-1/2" x 4" x 1"
Connects to any phone, scanner or amateur radio. Decodes any DTMF signals. Decodes digits 0 thru 9, #, *, A, B, C on a 2 line 16 character LCD display. Stores the last 490 digits recorded. Use scroll switch to search through the memory. Also decodes repeater codes, control codes or any other touch tones that are broadcast. Complete with black anodized cabinet. Hook-up via RCA jack.

DTMF-KIT.....Kit Form.....**$99.95**

DTMF.....Assembled.....**$129.95**

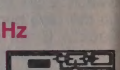
WIRELESS MIC KIT



.9" x 1"
Wireless mic kit can transmit up to 400 yards to an FM radio. Tunable from 80 MHz - 120 MHz. Comes with mic and 9V battery clip. Operates on 6 - 12 VDC.

WM-1.....**$11.95**

PREAMP 1 MHz to 2.5 GHz



1 MHz to 2.5 GHz
2.8 dB NF, 1 db compression = +0 dBM, Gain 1 MHz - 20 db, 2.5 GHz - 6 dB. Ideal preamp for scanners, freq counters & satellite receivers. Amplifies low or weak signals to a usable level. Two may be used in series for extremely low signals. Operates on 12 VDC @ 16 mA.

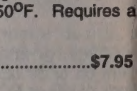
WBA-6.....**$18.95**

DIGITAL THERMOMETER KIT

Sensor is only 1/4" sq. and can be remotely located. Circuit designed to turn your digital multimeter into an accurate thermometer with .1 degree resolution. 290 degree span covering from -40 to 250°F. Requires a 9V battery.

DT-1.....**$7.95**

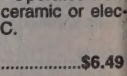
VOICE ACTIVATED SWITCH KIT



1-1/2" x 1-1/4"
Voice activated switch circuit. Switch will operate a 100 mA load. This can be used to drive a light, a relay for higher loads, etc. Operates from audio source or from crystal, ceramic or electret mic. Operates on 5-15 VDC.

VOX-1.....**$6.49**

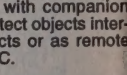
INFRARED TRANSMITTER KIT



Transmits a beam of I/R light across 6-8 ft. distance. Use of 40 KHz modulated beam blocks out other sources of direct I/R light. When used with companion receiver, kit can be used to detect objects interfering with beam, count objects or as remote control. Operates on 6-12 VDC.

42-139.....**$4.95**

INFRARED RECEIVER KIT



Only receives beam of 40 KHz modulated I/R light so that it blocks out other light sources of direct I/R light. When used with companion transmitter, kit can be used to detect objects interfering with beam, count objects, or as remote control. Output can be wired as "normally open" or "normally closed". Operates on 6-12 VDC.

42-140.....**$17.95**

C RELAY BOARD KIT

7/8" x 1-5/8" x 7/8"
his kit allows your PC
control lights, solenoids and other heavy
ads found in the "real world". Kit includes
xternal relay, board, eight 12 VDC relays (5A
ontacts) and software for use under DOS or
indows 3.1. 36 pin centronics female input
onnector from printer port, terminal strip for
lay contacts and relay power. Requires 12
DC supply for relay and printer port cable.

9-115.....**$49.95**

P-AMP FUNCTION ENERATOR KIT

7/8" x 1-5/8" x 7/8"
rcuit designed around a Quad Op-Amp con-
ected as oscillator & wave shapers. Oscillator
enerates a Square Wave over 6 Hz to 6 KHz.
nge. The other amps then produce the
iangle & pseudo Sine outputs. Solder pad
tputs. Runs on 9 VDC.

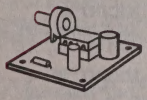
9-109.....**$7.59**

OW VOLTAGE AUDIO MPLIFIER KIT

1/4" x 1-1/4" x 3/4"
rcuit designed around the National LM386
. The LM386 is a variable gain audio amp.
se this kit as a building block for other pro-
cts. Operates on 4-12 VDC. Solder pads for
connections. Approximately 1/2 watt.

9-107.....**$5.89**

WATT AMPLIFIER KIT



1/4" x 1-1/8" x 7/8"
rcuit designed around a single TDA7052 IC.
eal part for larger projects. Drives 8 ohm
peaker (not supplied) Ideal for battery pow-
ed circuits. Operates on 3-15 VDC. Solder
ads for all connections.

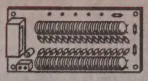
9-103.....**$6.75**

M WIRELESS MIKE KIT

3/4" x 5/8" x 1/2"
owerful 2 stage, wireless mike kit transmits
ver 1/2 mile (up to 1Km in the open) Tunable
the upper part of FM broadcast band. Circuit
oes require the ability to "Tweak" RF circuits
y stretching or compressing coils. With mike
9V battery clip. Operates from 6-12 VDC.

9-100.....**$9.29**

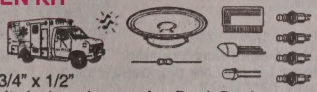
ION GENERATOR



4-1/2" x 2" x 1/4"
Produces several thou-
sand volts at very low current. AC power line and a series of diodes and capacitors to form multiple voltage doubling circuits. Produces positive and negative ions (depends on diode hook-up). Board should be put in protective box (not included) because it is AC powered.

99-112.....**$15.25**

SIREN KIT



2" x 3/4" x 1/2"
Circuit designed around a Dual Op-Amp connected as oscillator and driver. Oscillator is off until you press the switch then a rising tone is produced until a steady value is reached. If switch is released the tone starts dropping until it cuts off. Runs on 9V battery. Speaker & switch supplied.

99-108.....**$5.89**

4 TRAIN SOUND KIT

1-1/8" x 5/8" x 3/16"
Produces 4 selectable, common sounds associated with trains; Whistle blowing (repeats 3 times), Crossing Bell, Chugging and "Clickety-Clack". Components supplied for operation on 3 VDC (battery holder for 2 "AA" supplied), but circuit will operate from 2.5 - 6 VDC. Two boards can be cascaded to produce a sequence of sounds from a single switch.

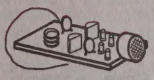
99-102.....**$6.75**

DOOR CHIME SOUND KIT

1-1/8" x 5/8" x 3/16"
Produces 16 door chime melodies. At power up the first tune is played; each subsequent push of the button causes the next song to be played in sequence. Some of the tunes are: "Farmer in The Dell", "Die Lorelei", "Lovers Concerto". Components supplied for operation on 3 VDC (battery holder for 2 "AA" supplied), but circuit will operate from 2.5 - 5 VDC.

99-101.....**$6.75**

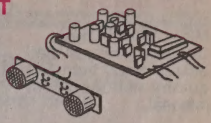
9 VDC FM TRANSMITTER KIT



1-3/4" x 3/4" x 3/8"
Powerful, FM transmitter. Transmits over 100 meters in building and over 500 M outside using 1/4 or 1/2 wave length of wire. Transmits to the upper part of FM broadcast band (100-108 MHz). Circuit requires the ability to "Tweak" RF circuits. Runs on 9 VDC.

99-106.....**$8.25**

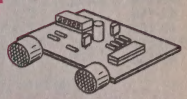
ULTRASONIC MOTION DETECTOR KIT



Main Board:
2-3/4" x 2" x 3/4"
Transducer Board:
2-3/4" x 5/8" x 7/8"
2 boards; one with matched pair of Ultrasonic transducers to detect motion from 4-7m away. 2nd board contains crystal controlled oscillator and all circuits. Switchable latch, red LED indicator. Solder pad output to drive external relay or circuits. Runs on 9V battery.

99-105.....**$26.95**

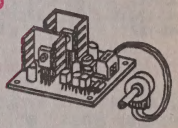
ULTRASONIC MOTION DETECTOR II KIT



1-3/8" x 5/8" x 3/4"
Detects motion from 4-7m away. Single board contains crystal controlled oscillator detector circuits and a pair edge mounted Ultrasonic transducers. Red LED motion indicator. Solder pad output to drive external relay or circuits. Sensitivity control. Requires 9V battery but 9VDC wall adapter recommended.

99-113.....**$23.75**

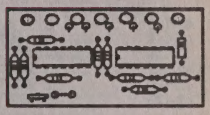
INTRO TO AUDIO POWER AMPS



1-7/8" x 1-5/8" x 1-1/2"
Kits use discrete parts to construct a Class A & Class A/B power amplifier. Delivers over one watt into an 8 ohm speaker (included). Terminal strips for all in and outputs. Hands on learning about Bootstrapping, cross-over distortion and push-pull outputs. Requires two 9V batteries.

99-111.....**$9.95**

12V / 8V / 5V BATTERY MONITOR KIT



2-3/4" x 1-7/16"
Voltage monitor kit monitors voltage using 7 LEDs (2 red, 2 yellow, 3 green). Change resistors to select voltage ranges and indicated steps: 5 or 8 V in 1/4 steps or 12 V in 1/4, 1/2 or 1 V steps.

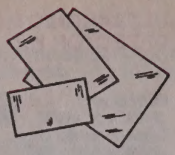
VM-1.....**$6.95**

CHASER LIGHT KIT

Use this kit like a mini theater marquee. You can use up to 40 LEDs (16 included) around hats, badges, pictures, etc. Every 4th LED chases around the display to give you a dazzling effect. Operates from 4 to 12 VDC.
1-1/4" x 1.6"

CL-1.....**$14.95**

COPPER CLAD PC BOARDS



Mfg. - INJECTORALL
Uncoated copper clad boards made from first quality mil-spec FR4 material.

1/16" Thick, Single sided, 1 oz.

42-109	3" x 4-1/2"	$2.49
42-110	4" x 6"	3.89
42-111	6" x 9"	7.49
42-160	12" x 12"	15.99
42-112	12" x 18"	23.75
42-161	18" x 18"	32.95

1/16" Thick, Single sided, 2 oz.

42-113	3" x 4-1/2"	$2.49
42-114	4" x 6"	3.99
42-115	6" x 9"	7.99
42-162	12" x 12"	18.49
42-116	12" x 18"	26.75
42-163	18" x 18"	35.49

1/16" Thick, Double sided, 1 oz.

42-117	3" x 4-1/2"	$3.39
42-118	4" x 6"	5.39
42-119	6" x 9"	10.99
42-164	12" x 12"	19.95
42-120	12" x 18"	29.49
42-165	18" x 18"	38.95

1/16" Thick, Double sided, 2 oz.

42-121	3" x 4-1/2"	$3.79
42-122	4" x 6"	5.99
42-123	6" x 9"	12.19
42-166	12" x 12"	22.95
42-124	12" x 18"	34.49
42-167	18" x 18"	47.95

1/32" Thick, Single sided, 1 oz.

42-125	3" x 4-1/2"	$1.89
42-126	4" x 6"	3.49
42-127	6" x 9"	6.29
42-168	12" x 12"	12.95
42-128	12" x 18"	18.89
42-169	18" x 18"	24.95

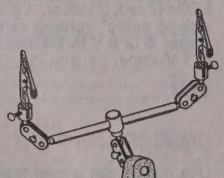
1/32" Thick, Double sided, 1 oz.

42-129	3" x 4-1/2"	$2.59
42-130	4" x 6"	3.99
42-131	6" x 9"	8.39
42-170	12" x 12"	14.25
42-132	12" x 18"	20.99
42-171	18" x 18"	27.75

1/32" Thick, Double sided, 2 oz.

42-133	3" x 4-1/2"	$3.79
42-134	4" x 6"	5.99
42-135	6" x 9"	12.19
42-172	12" x 12"	27.49
42-136	12" x 18"	34.49
42-173	18" x 18"	47.95

DUAL HELPING HAND



Hands hold work pieces firmly in any position to leave hands free. Double-ball joints enable hands adjustments at desired angles, and heavy metal base resists tipping.

HH1.....$3.79

DESIGN PHENOLIC PROTOTYPE BOARD

5-1/16" x 3-1/8" x 1/16"
Accommodates all type of IC's, transistors and passive components. Lands and buss bars are tin plated. .1" centers.

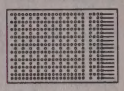
42-188.....$2.39

PRINTED STRIP PHENOLIC PROTOTYPE BOARD

6" x 3-1/2" x 1/16"
Alpha-numerical indexing. Tin plated land patterns for positive pin identification. .1" centers with .035" holes.

42-189.....$4.79

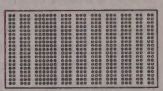
PLUG-IN IC PHENOLIC PROTOTYPE BOARD



4" x 2-3/8" x 1/16"
IC's plug directly into board. .1" spacing accepts 14, 16 and 20 pin IC's . Silver plated lands with 24-way card edge connector plug on one end. .1" centers with .035" holes.

42-186.....$1.95

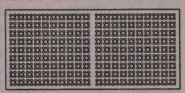
VERSA STRIP PHENOLIC PROTOTYPE BOARD



6" x 3-1/2" x 1/16"
Alpha-numerical indexing. Silver plated land patterns. Pre-determined short tracks for multi IC work. .1" centers with .035" holes.

42-187.....$4.99

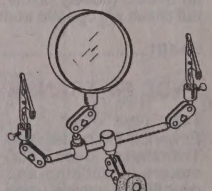
PERFORATED PHENOLIC PROTOTYPE BOARD



6-3/4" x 3-3/8" x 1/16"
This pre-punched phenolic board has .03" holes and is available in both quad and single patterns.

42-184.....Quad land pattern.....$4.49
42-185.....Single land pattern.....$4.49

DUAL HELPING HAND WITH MAGNIFIER



Similar to above; but also includes 2-1/2" dia., 2X magnification lens.

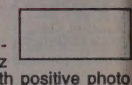
75-109.....$4.99

POSITIVE PRE-SENSITIZED PHENOLIC PC BOARD

Made of 1/16" thick phenolic base with 1oz copper on one side. Coated with positive photo etch. Expose directly from transparency, no negative required. Can be cut to any size. Peel off the protective coating and expose to photo lab bulb or a common fluorescent lamp.

42-190.....4" x 6".....$3.75
42-191.....6" x 6".....$3.99

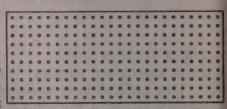
POSITIVE PRE-SENSITIZED PC BOARDS



Made of 1/16" thick epoxy-glass FR4 PC board with 1oz one side copper. Coated with positive photo etch resist photo sensitizer transparency. Expose directly from transparency. No negative required. Can be cut to any size. Just peel off the protective coating and expose to photo lab or a common fluorescent lamp. Dielectric constant at 1 MHz = 5.3.

42-192.....3" x 4".....$4.79
42-193.....3" x 6".....$5.29
42-194.....4" x 6".....$5.99
42-195.....6" x 6".....$7.89
42-196.....6" x 9".....$11.49

PERFORATED BARE PHENOLIC PROTOTYPE BOARD



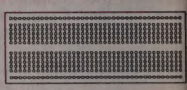
Boards are bare phenolic - no copper clad. The tough phenolic has pre-punched holes which make them excellent for prototypes, breadboards, hobby or science projects.

STANDARD "A"
.093" holes with .265" spacing
42-180.....8" x 3-3/4" x 1/16".....$5.45

MICRO "P"
.042" holes with .10" spacing
42-181.....6" x 2-1/4" x 1/16".....$2.89

MICRO "P"
.042" holes with .10" spacing
42-182.....6" x 4-1/2" x 1/16".....$4.49

EXPERIMENTERS PHENOLIC PROTOTYPE BOARD



6" x 2" x 1/16"
Ready-to-use copper plated PC board has 550 solder tiepoints, 94 five-point terminals and two 40-point buss strips on .3" centers. Phenolic board has pre-punched holes.

42-183.....$5.59

CIRCUIT-FIX KIT

Makes repairs fast and simple. Complete kit contains the spring-loaded clamp and guide, collet knife and cable, 154 assorted copper foil and instruction.

CF-1.....$22.90

PHOTO ETCH PRINTED CIRCUIT KIT

Use this kit to generate your own 1:1 artwork from a magazine, dot matrix or laser printer. Kit includes: 5" x 6" steel printing frame with glass & backboard, Pos-Neg® yellow filter, 4 sheets photocopy film, 1 pint each of film developer and fixer, 4 oz negative photo resist liquid, 8 oz resist developer, 5" x 6" & 3" x 4-1/2" copper clad circuit boards, 1/4 lb anhydrous ferric chloride, 2 sheets polyester drafting film, 1 roll each 1/16" & 1/32" PC tape, 8 sheets dry transfer direct PC patterns including donut pads, lines, jogs, DIP & round can IC's, transistors, edge card connectors, and 12 page instruction book. All necessary materials except the light source (ER-39) are included.

ER-4.....**$36.70**

ER-4 REFILLS AND ACCESSORIES

DIRECT ETCH

Set contains 8 sheets of assorted patterns and 1 rolls, one each of 1/16" and 1/32" etch resist tape. Patterns and tapes can be used either as a direct etch resist or as original artwork on drafting tape.

ER-2.....**$8.25**

DRY CONCENTRATED ETCHANT

1/4 lb of anhydrous ferric chloride. Makes 1 pint.

ER-3.....**$3.49**

POS-NEG FILM

This polyester base film is dimensionally stable and is capable of making a negative or positive from either opaque or translucent artwork in one step.

ER-5.....Six sheets 5" x 6".....**$7.90**
ER-9.....Two sheets 8" x 11".....**$7.90**

DEVELOPER, FIXER FOR POS-NEG FILM

Handles up to 15 sheets of 5" x 6". Makes 1 pint.

ER-6.....**$4.69**

PHOTO RESIST DEVELOPER

A solvent blend that will develop ER-11 and other negative acting photo resists. 16 oz.

ER-8.....**$4.89**

CONTACT PRINTING EXPOSURE FRAME

5" x 12" print frame comes with glass, backboard, yellow Pos-Neg filter and instructions.

ER-10.....**$14.70**

NEGATIVE PHOTO RESIST

A liquid cinnimate resist in a 4 oz bottle with pump sprayer. The coated board is exposed to UV through a negative of the circuit pattern, then developed in ER-8 liquid. (One bottle coats 1700 square inches.)

ER-71.....**$7.95**

DIRECT ETCH

Contains 4 identical sheets of donuts. (All ID = .017", OD = .08", .125", .188" & .25" dia.)

ER-13.....**$4.20**

DIRECT ETCH

Contains 4 identical sheets of DIP, flatpack and SO pads.

ER-14.....**$4.20**

REFLECTOR FLOOD LAMP

For use with: Neg-fast reversing film, pre-sensitized positive acting PC boards both standard and premier and Datak negative acting photo resist #ER-71.

ER-39.....**$12.95**

DIRECT ETCH RESIST PEN

This pen is filled with a lacquer ink that is impervious to aqueous PC etch solutions. Ideal for photo resist pattern touch-up or for direct etched boards with tight spaces.

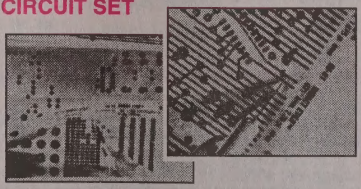
ER-15.....**$1.90**

TINNIT ELECTROLESS BRIGHT TIN PLATE

Designed to plate bare copper circuit boards to enhance solderability.

ER-18.....1 pint.....**$4.90**
ER181.....1/2 gallon.....**$17.85**

DIRECT ETCH PRINTED CIRCUIT SET



Make printed circuit boards with no artwork! You "wire" the actual circuit by rubbing down dry transfer etch resist patterns right on a copper clad board. Connect patterns with dry transfer lines or etch resist tape, etch in a ferric chloride solution and in a few minutes, the finished copper circuit can be drilled and loaded with components. This kit comes with a huge assortment of resist patterns: Universal DIPS, assorted size donuts, transistors, round can IC's, dry transfer lines, resist tape (.062" and .031", 720" total on each roll), 4 blank copper boards, 1/4 lb of dry ferric chloride etchant & complete instructions.

ER-1.....**$11.90**

LIGHT DUTY KNIFE

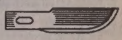
Mfg. - PROEDGE, Pro #1
5" aluminum handle with P#11 blade.
Sharp angle for precise cutting.

	(1-11)	(12-Up)
12010.....	**$1.75**	**$1.59**

PROEDGE® BLADES

Sharp angle for precise cutting.
Fits Pro #1 and Pro #3 handles.

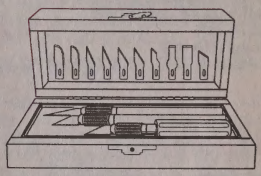
01110.....**P# 11**.....pack of 5/**$1.25**



Curved for general light cutting and carving.
Fits Pro #1 and Pro #3 handles.

01100.....**P# 10**.....pack of 5/**$2.30**

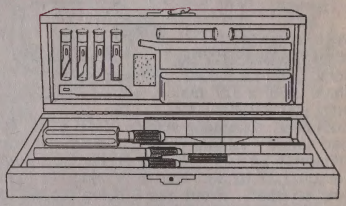
PRECISION KNIFE SET



Mfg. - PROEDGE
This all purpose wood case comes with 1 light duty, 1 medium duty and 1 heavy duty knife handle, and 10 assorted blades.

30820.....**$9.95**

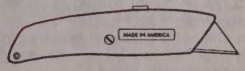
DELUXE KNIFE CHEST



Mfg. - PROEDGE
This all purpose wood case comes with 1 light duty, 1 medium duty and 1 heavy duty knife handle, 17 assorted blades, 4 assorted gouges, 1 razor saw blade, 1 mitre box, 1 jeweler's screwdriver, 1 pinpoint stylus, 1 sander block with sandpaper and wedge.

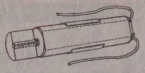
30860.....**$19.95**

RETRACTABLE UTILITY KNIFE



	(1-5)	(6-Up)
54-151.....	**$2.49**	**$2.25**

VIBRATING PAGER MOTOR



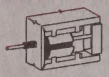
Non centric motor.
The off center weight on shaft causes vibration.

1.3 VDC @ 74 mA
35-152.....1/4" dia x 13/16" (L).....**$3.95**

1.3 VDC @ 93 mA
35-153.....3/16" dia x 15/16" (L).....**$3.95**

1.3 VDC @ 95 mA
35-155.....17/64" dia x 7/8" (L).....**$3.95**

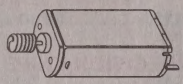
1-6 VDC HIGH SPEED TOY MOTOR



Body: 7/8" x 23/32" x 3/16"
Shaft: 5/16" x <1/16" dia.
16,000 RPM no load speed

35-138.....**$ .50**

9 - 12 VDC TOY MOTOR

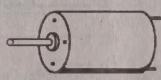


Mfg.# - FF-180PH
1-1/4" x 13/16" x 5/8"
1/2" shaft with 1/4" spiral gear
No load: 25 mA
Rated load: 310 mA
5600 RPM @ 9 VDC, 7500 RPM @ 12 VDC

New

35-159.....**$ .65**

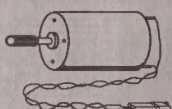
12 VDC MOTOR



Mfg. - MABACHI
Mfg.# - RS-375SA
Body: 1.09" dia. x 1.49"
Shaft: 1/16" x 1/2"
Operating voltage 12-26 VDC. No load speed 25,800 RPM, .23 amp. Torque 1.19 oz./in. Front has two hole tapped for mounting

35-144.....**$ .99**

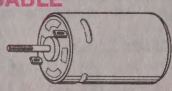
12 VDC MOTOR



Mfg. - MABACHI
Mfg.# - RS-385SH12190
Body: 1.09" dia. x 1.49"
Shaft: .055" x .09" dia. with removable 12 tooth gear. Operating voltage 12-26 VDC. No load speed - 22,000 RPM, .18 amp. At max efficiency speed - 18,800 RPM, 1.05 amp. Torque 1.27 oz./in. Has a .3" long, 12 tooth gear on shaft. Front has 2 holes tapped for mounting. 6" leads for hook-up.

35-114.....**$ .99**

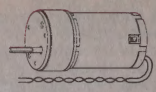
12-36 VDC PERMANENT MAGNET REVERSABLE MOTOR



Mfg. - JOHNSON
Mfg.# - 7500 SERIES
1.4" dia x 2.24"
35 VDC, 6300 RPM no load, 5800 RPM normal load, 510 mA @ 31 oz in torque under normal load. May load 1380 mA @ 9.5 oz torque. Rotation CW with positive terminal positive. Shaft 43 rock "C" hardness with knurl dia of .125". Spec sheet included.

35-150.....**$2.50**

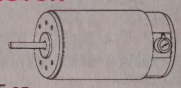
12VDC REVERSIBLE GEARHEAD MOTOR



Mfg. - BARBER COLMAN
Mfg.# - FYQF-63310-9
Body: 1-3/8"dia x 2-5/8"
Shaft: 3/16"dia x 13/16"
307 RPM no load speed (127mA)
232 RPM rated load (450mA)
Permanent magnet. Reversible.
19.28 in-oz torque. 3-hole front mounting.
8" 22 AWG color coded leads

35-149.....**$14.95**

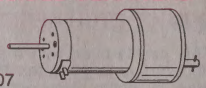
12 VDC SERVO MOTOR 3700 RPM



Mfg. - PITTMAN
Mfg.# - 14204C637
Body: 2" dia x 4-1/4", 35 oz.
Shaft: 1/4" dia x 1"
A permanent magnet, ball bearing, reversible motor. Rated no load at 12 VDC @ 500 mA. Speed 3700 RPM, torque constant 27.5 oz-in, stall torque 204 oz-in. This motor operates down to .5 volt with reduced speed and torque. Shaft end mounts via four 6-32 taped holes.

35-148.....**$15.95**

12 VDC REVERSIBLE GEARHEAD MOTOR



Mfg. - PITTMAN
Mfg.# - GM9434G807
3-3/4"(L) x 2"(D)
65.5:1 ratio, 175 oz-in torque
12 VDC @ 400 mA (no load)
115 RPM, 43 RPM no load speed

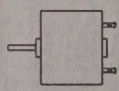
35-154.....**$19.95**

5 VDC STEPPER MOTOR

Mfg. - AIRPAX
Mfg.# - LB82773-M1
2-1/4" dia. x 15/16" high
3/4" shaft with gear
2-5/8" mounting centers
5 VDC, approximately 800 mA
6.25 ohm coil 7.5° per step

35-143.....**$1.75**

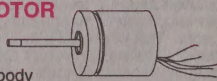
ORIGINAL CD SPINDLE MOTOR



Mfg.# - RF-320CH-10570
.4" shaft
Used by Pioneer #PEA1233
(replacing #PY11109)
Nakamichi #0C83432
Denon #9500008312 and other makers

35-136.....**$6.50**

24 VDC VARIABLE RELUCTANCE STEPPING MOTOR



Mfg. - SINGER
1-1/2"dia x 1-1/2" body
1-1/2" shaft, 1/8"dia shaft
24 VDC, 71 ohm coils
Step angle 15° - 7.5° halfstep

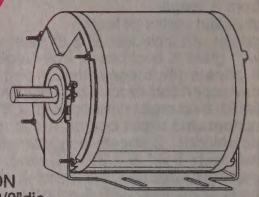
35-118.....**$3.95**

12 VDC STEPPER MOTOR

Mfg. - BERGER/LAHR
2" dia x 1-1/8" high
1/2" shaft, 1/8" dia
2-3/8" mounting centers
12 VDC, 74 ohm coil

35-145.....**$1.25**

TOTALLY ENCLOSED FAN DUTY MOTOR

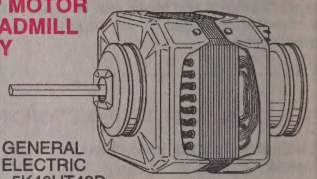


Mfg. - DAYTON
Body: 8" x 6-3/8"dia
Shaft: 1-1/2" x 1/2"dia
Split phase. 1725/1140 RPM. Sleeve bearings. Resilient base mount. 1.0 service factor. Class A insulation. Automatic reset thermal protection. NEMA 56Z frame.

Mfg.# - 3K012
35-157.....**1/4 - 1/6 HP**.....**$19.95**

Mfg.# - 3K014
35-158.....**1/3 - 1/6 HP**.....**$19.95**

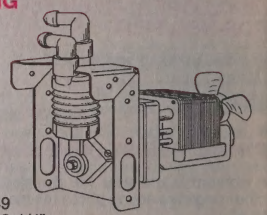
1 HP MOTOR TREADMILL DUTY



Mfg. - GENERAL ELECTRIC
Mfg.# - 5K40HT43D
5"sq x 5-1/2" deep, 13 lbs
115 VAC, 60 Hz @ 8 amp - no load, 60 cycle, 1750 RPM, rotation CW, bushing bearings. Square open frame motor with 2-1/8" rubber shock mounts. Shaft size: 3-1/4" L x 1/2" dia with flat key-way. Input 1/4" quick connect terminals # 2 & 5.

35-151.....**$19.95**

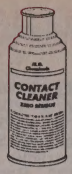
SINGLE BELLOWS ADJUSTABLE METERING PUMP



Mfg. - GORMAN RUPP
Mfg.# - 15649
7" x 6-1/2" x 3-1/4"
Adjustable flow rate 63 to 630 mL per minute. Single 1-1/2" diameter adjustable polypropylene bellows and EPT elastomer. Driven by a 60 RPM, 115 VAC, 50/60 Hz, 1 amp motor. Inlet and outlet connectors 3/8" ID swivel elbow barbed for flex tubing. House and frame stainless steel.

35-139.....**$29.95**

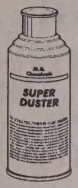
LECTROSOLVE ONTACT CLEANER



ero residue, safe on plastics, non-onductive, fast evaporating. owerful cleaner that quickly pene-ates and desolves most soil types. or use on most electronic parts nd equipment.

-130.....12oz Liquid.....$6.45

UPER DUSTER 70 PSI



emoves microscopic dust, lint and reign particles from printers, tim-g devices, cash machines, optical quipment and other electro echanical instruments. Variable alve allows user to control pres-re up to 70 psi. Zero residue. on flammable.

-115.....10oz. Aerosol.....$5.75
-128.....14oz. Aerosol.....$7.75

UPER COLD SPRAY

ills to -51oC (-60°F)
locating thermal intermittent elec-nic components, PCB cracks and ld solder joints. Protects heat sensi-e components during soldering. on flammable. Variable valve allows er to control rate of flow.

-116.....10oz. Aerosol.....$5.75
-129.....14oz. Aerosol.....$7.75

AFETY WASH LEANER/DEGREASER

orks excellent on printed circuits, tical filters, circuit breakers, fiber tics and more. Safe on most astics and elastomers. Leaves no sidue. Static free. Variable valve ows user to control rate of flow.

-117.....18.5oz. Aerosol.....$8.75

EAVY DUTY LEANER/DEGREASER

eans and degreases contacts, con-ctors, printed circuits, relays, itches and more. Dissolves wax, s and adhesives. Removes oils, ricants and oxides. Non flamma-e. Static free. Variable valve ows user to control rate of flow.

-118.....21oz. Aerosol.....$10.25

MAGNETIC HEAD/ DISC CLEANER

Removes contaminating oils, oxides, dust, dirt and smoke film from sensitive magnetic tape heads, computer discs and drives. No residue. Static free.

16-124.....8oz Liquid.....$4.75

NU-TROL CONTACT CONTROL CLEANER WITH LUBRICANT

Contains a unique blend of high purity solvents and special lubricating oils for restoring electrical continuity and lubricating moving parts. Cleans and lubricates selector switches, contacts, controls, relays, tuners and more. Safe on most plastics. Variable valve allows user to control rate of flow.

16-125.....12oz. Aerosol.....$7.49

CONTACT CLEANER WITH SILICONES

Cleans and lubricates tuners, office equipment, switches, keyboards, battery terminals, ignition systems and much more. Safe on most plastics and elastomers. Variable valve allows user to control rate of flow.

16-126.....12oz. Aerosol.....$7.49

FLUX REMOVER FOR PC BOARDS

Removes all types of organic rosin fluxes and ionic soils. No residue, evaporates quickly. Static free. Variable valve allows user to control rate of flow.

16-120.....14oz. Aerosol.....$7.75

ANTISTATIC SCREEN KEYBOARD CLEANER

Eliminates static charge from sensitive areas and provides long term static protection. Spray on and wipe off fingerprints, grease, oils, inks, organic and inorganic soils. For use on CRT's, keyboards, monitors, terminals and more.

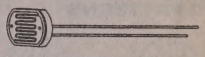
16-121.....14oz. Aerosol.....$7.75

LED PHOTOCONDUCTIVE CELL

Mfg. - VACTEC, #VTL2C2
TO-5 package
LED coupled to photoconductive cell.
LED current 40 mA max @ Vf = 1.65V.
Max on resistance 500 ohm for LED current of 40 mA, min off resistance 1 meg ohm. Max decay to 100K ohm = 500ms.

VTL2C2.....$2.99

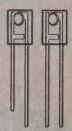
PHOTO CELL



<10Kohms typical resistance @ 100 ftc
>100Kohms min. dark resistance 15 sec after 2 ftc. 50 volt peak

	(1-99)	(100-Up)
25-322	$ .49	$ .45

MATCHED LED & PHOTO SENSOR PAIRS



Mfg. - HONEYWELL

GaAs INFRARED EMITTING DIODE

Mfg.# - SEP 8526
Forward voltage 1.5-20 volt, reverse voltage 3 volt. Continuous forward current 50mA, output power .33(1) min - 20 I_F (mA).

PHOTOTRANSISTOR

Mfg.# - SDP 8426
Collector - emitter voltage 30 volt, emitter collector voltage 5 volt, light current = 5 V_{CE} 1.8 min to 1 H(1), dark current H = 0 100 max - 30 V_{CE}, I_C = 100µA 30 min, I_E = 100µA 5 min. Spec sheet included.

25-294.....Sold in pairs only.....pair/$ .99

SUPER CONTACT WITH PPE CLEANER

Protects, deoxidizes and lubricates electrical contacts. Protects gold for life. Works on all metals and safe on most plastics. Great for use with connectors, IC's, switches, battery terminals, pots, relays etc. Contains poly ether.

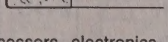
16-131.....5oz. Aerosol.....$6.45

HEAVY DUTY FLUX REMOVER

Removes all types of flux. Excellent for cleaning tips of soldering irons, heavily oxidated contacts, connectors and more. Penetrates to quickly remove most non-ionic and ionic soils. Variable valve allows user to control rate of flow.

16-119.....14oz. Aerosol.....$7.75

CHAMOIS SWABS

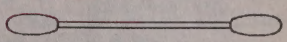


" handle. Extra rigid synthetic suede swabs
sed for maintenance and cleaning of data processors, electronics, ptics and audio-visual. Static free.

6-122.....Pack of 15.....$5.49

DOUBLE HEADED COTTON SWABS

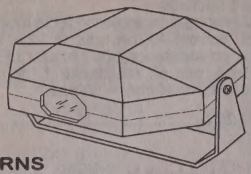
6" white birch shaft.
Pharmaceutical grade purified cotton for best absorption.



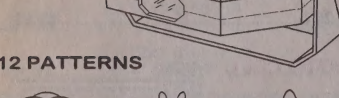
16-123.....Pack of 100.....$1.79

LASER LIGHT SHOW

Club Effect Lighting Portable Red Laser



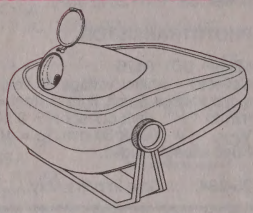
12 PATTERNS



5-3/4" x 3-3/4" x 2-1/4", 1 lb
12 preset built-in rotating patterns. *Auto mode:* adjustable. *Music mode:* controlled by mic. On/off switch and auto/music switch. Includes 4 "AAA" batteries. 3mW laser diode.

75-318.....**$59.95**

LASER ONE
PROFESSIONAL LASER LIGHT SHOW

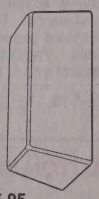


8-3/4" x 6-5/8" x 4-1/4
Enjoy all the thrills of a professional laser light show in your home. Create huge, dazzling images with real laser technology at your fingertips. When using the direct audio input jack or the built-in microphone, Laser One displays a large array of patterns to your favorite music.

- Sound response
- Microphone pick-up
- Direct audio input
- Pattern effect controls
- On/off switch
- Protective lens cover
- Manual/auto control switch
- Adjustable base with mounting bracket
- Battery operated 4 "AA" (not included)

75-333.....**$69.95**

STROBE LIGHT



Mfg. - ATLAS/SOUDOLIER
3-3/4" x 11/16" x 1-3/16"
Single flush surface mount strobe enclosed in a white frosted plastic housing.

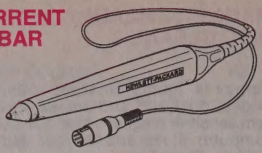
24 VDC 40mA
17 strobes per minute

17-102.....**$5.95**

24 VDC 80mA
34 strobes per minute

17-103.....**$9.95**

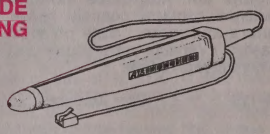
LOW CURRENT DIGITAL BAR CODE WAND



Mfg. - HP
Mfg.# - HBCS-A300
6-1/4" long with 3-1/2' cord
Operates at 5 VDC, <4mA
.19mm (.0075") resolution. 655nm LED wavelength. 5 pin din connector. 0° to 45° typical scan angle. High ambient light rejection - operates in direct sunlight. Sealed sapphire tip, 15Kv ESD isolation. Spec sheet included.

HBCS-A300.....**$9.95**

BAR CODE SCANNING WAND

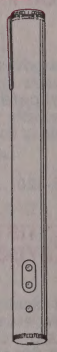


Mfg. - AIS (for HP), #HEDS-3050
Digital bar code scanner. Consists of a self contained 700NM red LED and matching sensor, amplifier and digitizer. CMOS/TTL open collector output, single 5 VDC operation. .3mm resolution. 3'3" cord with RJ-12 modular connector. Includes spec sheet.

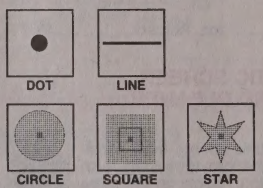
24-133.....**$24.95**

5 IN 1 LASER POINTER

Project 5 different Red beams
CONSTANT* or *BLINKING

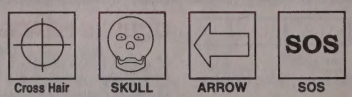


5-1/4"L x 7/16"dia
3.5mW • 645nm • 1600ft range
• Class IIIA • 10hr continuous use
• Powered by 2 "AAA" batteries (included). This unique laser has a nickel plated finish over solid brass and has a metal pocket clip. Includes 5 different logo lens rings.



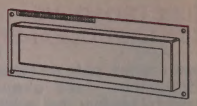
75-303.....**$34.95**

OPTIONAL LENS



75-314.....Pack of 5 (one each).....**$9.95**

16 X 1 LCD MODULE

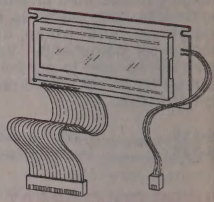


Mfg. - VARITRONIX
Mfg.# - MDL-16166
3-1/8" x 1-5/16" x 7/16"
Character 5 x 8 dots, display area 2-1/2" x 1/2"
Character size .124"W x .248"H, requires 5 VDC. Complete spec sheet included. Dark blue character on a silver/grey background. 14 pin I/O interface connectors.

25-326.....**$5.95**

16 X 2 LCD DISPLAY MODULE

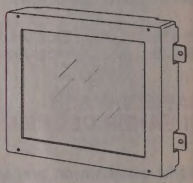
New



Mfg. - HP
Mfg.# - HLM1622
Data sheet included. LCD drive voltage 4.5V @ 1 mA. This assembled module utilizes an Hitachi HD447880 controller and Oki M5259 driver also included.

25-109.....**$9.95**

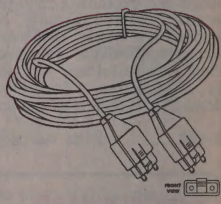
320 x 200 DOT LCD GRAPHIC MODULE



Mfg. - OPTREX
Mfg.# - DMF50045NB-FW
6-3/8" x 5-1/4" x 7/8"
320(W) x 200(H) dot LCD module with on board drivers. Displays graphics, figures and characters. Dot size: .34 x .48mm. Viewing angle: 121 x 104mm High contrast, wide viewing angle. Low voltage drive and low power consumption. Requires E-133OBA controller and CXAM10L inverter for fluorescent backlight. Data sheet included.

25-323.....**$29.95**

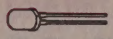
FIBER-OPTIC DUPLEX CABLE ASSEMBLY



Mfg. - TOSHIBA
Mfg.# - TOCP201
67ft black duplex cable assembly design incorporates two conventional SC bodies into a dual sleeve or shell. Ideal for point to point, computer to computer or workstation to workstation applications.

36-359.....**$24.95**

T 1 MINIATURE LED



mm

Part#	Description	(1-99)	(100-up)
LM1	Red diffused	$ .10	$ .09
LM2	Green diffused	.12	.10
LM3	Yellow diffused	.12	.10

T 1 MOUNTING CLIP

Black plastic clip for
anel mounting T1 leds.

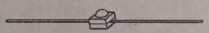
5-318.....$ .15

SURFACE MOUNT LED CHIPS

115" x .055" x .05"
1mm lens dia.) Gold plated mounting surfaces
or super conductivity.

Part#	Description	Price
25-130	Green	pk of 10/$ .50
25-217	Orange	pk of 10/$ .50

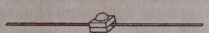
SUB-MINI AXIAL LED



x 3.2mm (.09")

Part#	Description	(1-99)	(100-up)
SM3R	Red	$ .12	$ .10
SM3G	Green	.12	.10
25-138	Clear-lights green	.12	.10

SUB-MINIATURE HIGH BRIGHTNESS RED AXIAL LED



Mfg. - ROHM
Mfg.# - SLN-210VTT12 *Special*
.5mm (L) x 2.25mm (W) x 2.5mm (H)
Operates on 2 VDC @ 10mA
Typical luminous intensity: 3.6 - 7.1 mcd

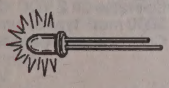
5-301.....$ .06

T1 BLINKING LED

T1 (3mm) diffused
linking LED's.
00° viewing angle with a typical luminous
ntensity of 3.2 - 8 mcd @ 10 mA.

5-287.....625nm Red.....$ .55
5-288.....657nm Green.....$ .55
5-289.....585nm Yellow.....$ .55

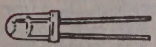
T 1-3/4 (5mm) RED BLINKING LED



Mfg. - LITRONIX
Mfg.# - FRL4403-957
Operates on 3 VDC @ 10 mA

24-135.....$ .39

BLINKING YELLOW LED



T 1-3/4 (5mm)
Diffused yellow lens
3.2 V

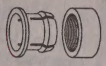
	(1-99)	(100-Up)
91-255	$ .45	$ .35

T 1-3/4 JUMBO LED

5mm

Part#	Description	(1-99)	(100-up)
LO1	Red diffused	$ .10	$ .09
LO2	Green diffused	.15	.12
LO3	Yellow diffused	.15	.12
LO4	Orange diffused	.15	.12
LO5	Red point source	.10	.08

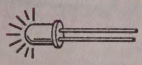
LED PANEL MOUNTS



Mfg. - HEWLETT PACKARD
Mfg.# - HLMP-0103
Black plastic mounting clip and retaining ring
for T 1-3/4 LEDS

25-315.....$ .05

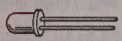
T 1-3/4 (5mm) BRIGHT RED LED



Mfg. - SIEMANS
Mfg.# - LD502-7
High light output: 4 mcd
Wide viewing angle: 70°
Diffused red gallium arsenside phosphide
LED lamp. Operates 2 VDC @ 10 mA.

	(1-99)	(100-999)	(1K-Up)
25-307	$ .10	$ .09	$ .08

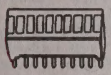
LOW CURRENT T 1-3/4 DIFFUSED RED LED



Mfg. - HP
Mfg.# - HLMP-4700
High effieciency red T 1-3/4 (5mm)
2 VDC @ 2 mA, (1.8-2.2 VDC max)
2 mcd luminosity, 50° view angle

25-325.....$ .19

BARGRAPH DISPLAY

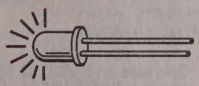


1" x 3/8", 20 pin dip
10 long well defined segments.

21-195.....10 red.....$1.85
21-196.....10 green.....$ .95

19 mcd 5mm RED LED

Low Current
High Brightness

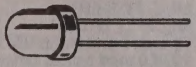


Mfg. - LITEON
Mfg.# - LTL307E
Operates on 2 VDC @ 10 mA
19 mcd typical luminosity.
5mm (T1-3/4) GaP Red
Red diffused high efficiency LED

5K-Up
$ .035

	(1-999)	(1K-Up)
25-293	$ .06	$ .05

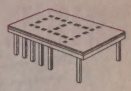
GIANT LED



10mm

Part#	Description	Price
25-227	Red diffused	$ .25
25-228	Green diffused	.25
25-330	Yellow diffused	.25

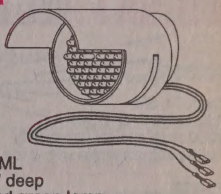
4 x 7 HEXADECIMAL WITH LOGIC



Mfg. - TI
Mfg.# - TIL311
.3" character height. High brightness left-and-right decimal points. Internal TTL MSI chip with a four-bit latch, decoder, driver and a 4 x 7 LED character with two externally driven decimal points in a 14 pin package. LED and logic power supplies may be used. Spec sheet included.

TIL311.....$8.95

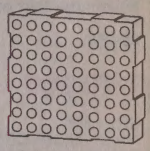
DUAL COLOR OUTDOOR LED LAMP



Mfg. - ROHM
Mfg.# - SLL-5080ML
2-1/4" dia x 1-1/2" deep
High bright red and green lamp.
Common anode - 14 high intensity red leds (12 VDC @ 20mA); 36 high intensity green leds (20 VDC @ 100 mA). Waterproof structure. High visibility. Peak emission wavelength: Red 650nm, Green 565nm. Min. luminosity: Red 5.6cd, Green 2.3cd. Red and green can be lit independently or simultaneously. Includes removable black lens cover. 12" long color coded hook up wires.

25-321.....$19.95

8 x 8 DOT MATRIX DISPLAY



Mfg. - CHINA SEMI
Mfg.# - CSM-88221E
2-3/8"sq x 3/8"
Red (GaAsP/GaP) .2" dot size
Cathode column, anode row
2 volt forward, 5 volt reverse
25 mA continuous forward voltage
4 mcd typical luminosity
Side and end stackable

25-324.....$2.95

PASSIVE INFRARED MODULE

PUTTY

1-5/8" x 1-1/4" x 1-5/16"
With four 2" wire outputs with female molex connector on end.

10-111.....$7.95

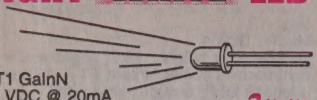
BLACK

.1-5/8" x 1-1/4" x 1"
With four pin output.

10-110.....$7.95

Mfg. - AMP, #P1RM180-200
Outputs - Digital: Norm low (+.7V max)
Active (+3.8V min)
Analog: Offset @ 2.5 volts
Operates on 5 VDC @ 2mA
Compact 180° field of view motion sensor. Detects motion to a range of 20 feet. Lookdown beams to detect low movement. Spec sheet included.

BRIGHT WHITE LED

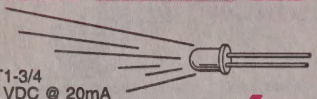


3mm T1 GaInN
3.6 - 4 VDC @ 20mA
1000 mcd typical luminosity
Full spectrum white with water clear lens

3mm

25-352.....$3.49

BRIGHT WHITE LED



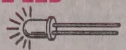
5mm T1-3/4
3.6 - 4 VDC @ 20mA
2000 mcd typical luminosity
Full spectrum white with wide angle beam

5mm

25-353.....$3.99

BRIGHT BLUE LEDS

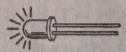
250 mcd 3mm BLUE LED



Mfg. - EVERLIGHT
Mfg.# - EL264UBC
Operates on 3.9-5.5 VDC @ 20 mA
250 mcd typical luminosity
SIC substrate & GaN
Water clear lens emits Super Blue

25-358.....$1.99

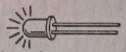
1100 mcd 5mm BLUE LED



Mfg. - HP
Mfg.# - HLMP-CB15
Operates on 3.5 VDC @ 20 mA
1100 mcd typical luminosity
T1-3/4 (5mm) InGaN Blue
473 peak emission wavelength. Colorless, transparent lights high intensity blue

HLMP-CB15.....$2.99

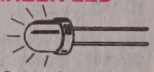
1125 mcd 5mm BLUE LED



Mfg. - EVERLIGHT
Operates on 3.9-5.5 VDC @ 20 mA
5mm (T1-3/4) SIC Substate & GaN Blue
1125 mcd typical luminosity
Water clear lens emits Super Blue

25-346.....$2.99

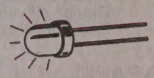
1500 mcd 10mm GREEN LED



Mfg. - TOSHIBA
Mfg.# - TLGD190P
Operates on 2.15-2.8 VDC @ 20mA
1500 mcd typical luminosity
10mm GaP Green
567nm peak emission wavelength
Water clear lens, lights green

25-343.....$3.49

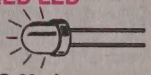
18,000-36,000 mcd 10mm ORANGE LED



Mfg. - TOSHIBA
Mfg.# - TLOH190P
Operates on 2 VDC @ 60 mA
10mm InGaAlP Orange
18,000-36,000 mcd luminous intensity
Peak emission wavelength: lp = 620 nm
Colorless, transparent lights orange

25-276.....$3.49

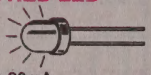
7000 mcd 10mm RED LED



Mfg. - TOSHIBA
Mfg.# - TLRA190P
Operates on 1.85-2.4 VDC @ 20mA
7000 mcd typical luminosity
10mm GaAlAs Red
660nm peak emission wavelength
Water clear lens, lights red

25-340.....$2.99

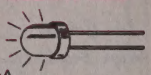
15,000 mcd 10mm RED LED



Mfg. - TOSHIBA
Mfg.# - TLRH190P
Operates on 1.9-2.5 VDC @ 20mA
15,000 mcd typical luminosity
10mm InGaAlP Red
644nm peak emission wavelength
Water clear lens, lights red

25-339.....$3.49

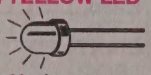
6000 mcd 10mm YELLOW LED



Mfg. - TOSHIBA
Mfg.# - TLYH190P
Operates on 2 VDC @ 40 mA
10mm InGaAlP Yellow
6000 mcd typical luminosity
Colorless, transparent, lights yellow

25-253.....$2.50

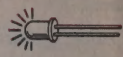
23,000 mcd 10mm YELLOW LED



Mfg. - TOSHIBA
Mfg.# - TLYH190P
Operates on 1.9-2.5 VDC @ 20mA
23,000 mcd typical luminosity
10mm InGaAlP Yellow
590nm peak emission wavelength
Water clear lens, lights yellow

25-342.....$3.49

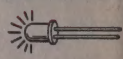
260 mcd 5mm RED LED



Mfg. - HP, #HLMP-8207
Operates on 2 VDC @ 10mA
260 mcd typical luminosity
5mm T 1-3/4 HER untinted
25° viewing angle

	(1-99)	(100-Up)
HLMP-8207	$ .35	$ .29

500 mcd 5mm RED LED



Mfg. - TOSHIBA, #TLRA134A
Operates on 2 VDC @ 30 mA
500 mcd typical luminosity
T1-3/4 (5mm) GaAlAs Red
Red diffused.

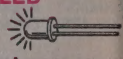
25-278.....$ .15

1000 mcd 5mm RED LED

Mfg. - HP, #HLMP-8100
5mm T1-3/4 Ts-AlGaAs
1000 mcd typical luminosity
Water clear lens emits super red
644nm wavelength, 19° viewing angle

	(1-99)	(100-Up)	(1K-Up)
HLMP-8100	$ .25	$ .22	$ .18

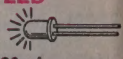
1200 mcd 5mm RED LED



Mfg. - LITEON
Mfg.# - LTL-4268UR
Operates on 1.8-2.4VDC @ 20mA
T1-3/4 (5mm) GaAlAs Red
1200 mcd typical luminosity
Water clear lights very high intensity Red
Ammo Pack

25-349.....$ .25

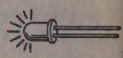
2000 mcd 5mm RED LED



Mfg. - TOSHIBA
Mfg.# - TLRA130
Operates on 1.85 - 2.4 VDC @ 20mA
2000 mcd typical luminosity
5mm GaAlAs RED
Colorless, transparent, lights red

	(1-99)	(100-Up)
25-336	$ .89	$ .79

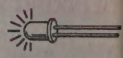
3000 mcd 5mm RED LED



Mfg. - CHING SEM!
Operates on 2 VDC @ 20mA
3000 mcd typical luminosity
Colorless, produces red beam

	(1-99)	(100-Up)
25-338	$ .99	$ .89

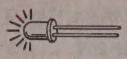
8000 mcd 5mm RED LED



Mfg. - TOSHIBA
Mfg.# - TLSH180P
Operates on 2 VDC @ 20mA
8000 mcd typical luminosity
5mm InGaAlP Red
Water clear lights red

	(1-99)	(100-Up)
25-359	$1.25	$ .99

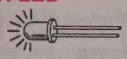
350 mcd 5mm GREEN LED



Mfg. - HP
Mfg.# - HLMP-8507
Operates on 2VDC @ 20 mA
350 mcd typical luminosity

HLMP-8507.....**$ .19**

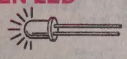
520 mcd 5mm GREEN LED



Mfg. - ROHM
Mfg.# - SLA-580MTE49 XK
Operates on 2.1 - 3 VDC @ 20 - 60 mA
520 mcd luminosity
T1-3/4 (5mm), transparent lens lights green

(1-99) (100-Up)
25-306.....**$ .39**.....**$ .35**

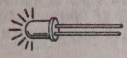
2400 mcd 5mm GREEN LED



Mfg. - TOSHIBA
Mfg.# - TLGA183P
Operates on 2.35-2.8 VDC @ 20mA
2400mcd typical luminosity
T1-3/4 (5mm) InGaAlP Green
574nm peak emission wavelength
Water clear lens, lights green

25-341.....**$ .99**

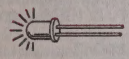
3000 mcd 5mm ORANGE LED



Mfg. - TOSHIBA
Mfg.# - TLOA180AP
Operates on 2 VDC @ 40 mA
3000 mcd typical luminosity
5mm InGaAlP Orange
Colorless, transparent lights orange

25-277.....**$ .75**

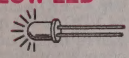
550 mcd 5mm YELLOW LED



Mfg. - TOSHIBA
Mfg.# - TLYA157P
Operates on 2 VDC @ 30 mA
550 mcd typical luminosity
T1-3/4 (5mm) InGaAlP Yellow
Colorless, transparent lights yellow

25-275.....**$ .18**

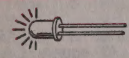
2000 mcd 5mm YELLOW LED



Mfg. - TOSHIBA
Mfg.# - TLYE157P
Operates on 2.1 - 2.5 VDC @ 20mA
2000 mcd typical luminosity
5mm InGaAlP YELLOW
Water clear lens, lights yellow

25-337.....**$ .45**

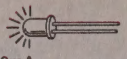
3500 mcd 5mm YELLOW LED



Mfg. - MARKTECH
Mfg.# - S4E38XX
Operates 2.1 - 2.5 VDC @ 20 mA
5mm InGaAlP yellow
3600 mcd typical luminosity. Water clear lens.

25-357.....**$ .89**

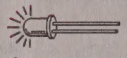
8000 mcd 5mm YELLOW LED



Mfg. - TOSHIBA
Mfg.# - TLYH180P(U2)
Operates on 2.1 - 2.5 VDC @ 20mA
8000 mcd typ luminosity
T1-3/4 (5mm), colorless transparent
Super ultra bright lights yellow beam
Brightest 5mm LED available

(1-99) (100-Up)
25-335.....**$1.25**.....**$ .99**

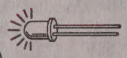
300 mcd 3mm RED LED



Mfg. - EVERLIGHT
Mfg.# - EL1224HRC-3
Operates on 1.7-2.4VDC @ 20mA
3mm T-1 GaAlAs Red
300 mcd typical luminosity
Water clear lights very high intensity Red

25-350.....**$ .12**

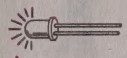
40 mcd 3mm YELLOW LED



Mfg. - LITEON
Mfg.# - LTL16KYE
Operates on 2.1 VDC @ 10 mA
40 mcd typ luminosity
45° viewing angle, 585nm

25-328.....**$ .12**

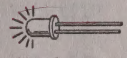
120 mcd 3mm GREEN LED



Mfg. - EVERLIGHT
Mfg.# - EL1224VGT
Operates on 2.1-2.8VDC @ 20mA
3mm T-1 GaP Green
120 mcd typical luminosity
Green clear lens

25-351.....**$ .12**

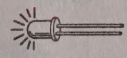
200 mcd 3mm GREEN LED



Mfg. - ROHM
Mfg.# - SLH-34MC3 U
Operates on 2.1 - 3 VDC @ 20 - 60 mA
200 mcd luminosity
3mm T-1 green clear lens

(1-99) (100-Up)
25-302.....**$ .24**.....**$ .18**

ULTRA BRIGHT 3mm LEDS



Mfg. - IMO
Operates on 2 VDC @ 10 mA
3mm (T1) Colorless, transparent
For backlight illumination.

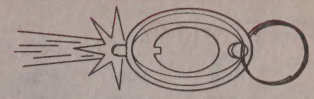
47 mcd luminosity *(1-99) (100-up)*
25-261.....**Red**.....**$ .18**.....**$ .15**

100 mcd luminosity *(1-99) (100-up)*
25-262.....**Green**.....**$ .18**.....**$ .15**

Mfg. - TOSHIBA
Mfg.# - TLYA262
Operates on 2 VDC @ 30 mA
80 mcd luminosity

(1-99) (100-up)
25-285.....**Yellow**.....**$ .18**.....**$ .15**

ULTRA BRIGHT KEY RING

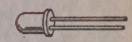


Ultra bright LED housed in tough black ABS plastic case. Powered by 5 year CR2032 lithium battery. Key ring, LED and battery included.

25-348.....***Super Yellow***.....**$6.99**
25-347.....***Super Red***.....**$6.99**

BI-POLAR RED/GREEN LED

T 1-3/4 (5mm) diffused
Red/green
2.2 VDC @ 50 mA



25-319.....**$ .39**

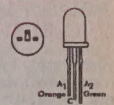
BI-COLOR RED/GREEN LED

T 1-3/4
5mm diffused • Red/Green
Operates on 2 VDC @ 10 mA
Luminous intensity: Red - 8 mcd
Green - 5 mcd
Common cathode

25-308.....**$ .26**

BI-COLOR GREEN/ORANGE LED

Mfg. - TELEFUNKEN
Mfg.# - TLUV5300
Green/Orange. Diffused.
Luminous intensity
2.5 mcd @ 2.4 V.



(1-99) (100-Up)
TLUV5300.....**$ .29**.....**$ .25**

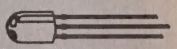
ULTRA BRIGHT DUAL COLOR LEDS

Mfg. - TOSHIBA
Typical luminous intensity.
Red = 500 mcd, Green = 150 mcd.
Produces red & green simultaneously within the same package. They can also be lit independently. Common anode.

T1-3/4 5mm

Mfg.# - TLRAG178

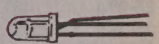
(1-99) (100-Up)
25-250.....**$1.25**.....**$ .99**



7-1/2mm

Mfg.# - TLRA188
25-240.....**$ .99**

T 1-3/4 DUAL COLOR BRIGHT GREEN/ BLINKING RED LED



T 1-3/4 dual color
diffused LED has a clear dome. Lights a super bright green or blinks red depending on polarity. A unique status indicator.

25-111DC.....**$1.49**

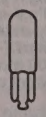
T 3-1/4 MINIATURE LAMPS

MINATURE BAYONET

Part#	Mfg. Type	Volts	Amps	MSCD	Avg Hours	Price Per 10
37-107	1816	13.0	.33	3.00	1.0K	$3.99
37-108	1819	28.0	.04	0.34	2.5K	3.99
37-109	1829	28.0	.07	1.00	1.0K	3.99
37-110	1828	37.5	.05	0.65	3.0K	4.99
37-111	1835	55.0	.05	1.10	5.0K	6.99
37-114	47	6.3	.15	0.50	3.0K	2.39
37-115	755	6.3	.15	0.33	20.0K	4.39
31-116	44	6.3	.25	0.90	3.0K	2.39

WEDGE

Part#	Mfg. Type	Volts	Amps	MSCD	Avg Hours	Price Per 10
37-112	259	6.3	.25	0.65	5.0K	3.19
37-113	194	14.0	.27	2.00	5.0K	3.19
31-117	73	14.0	.08	.300	15.0K	3.59
31-118	85	28.0	.04	.300	10.0K	3.59



SUB-MIDGET FLANGE

Part#	Mfg. Type	Volts	Amps	MSCD	Avg Hours	Price Per 10
31-119	328	6.0	.20	.340	1.0K	3.79
31-120	330	14.0	.08	.500	1.5K	4.39
31-121	387	28.0	.04	.300	7.0K	3.79
31-122	327	28.0	.04	.340	4.0K	3.79

AUDIO/VISUAL PROJECTION LAMPS

High quality lamps used in photo flood equipment, audio visual overhead projectors, enlargers, airport runway lights, stage and studio displays and many types of projection systems.

Part#	Watts	Volts	Fig#	Price
BVE	600	120	T-6	$24.95
CAL/CXP	300	120	T-10	11.95
DAY/DAK	500	120	T-10	21.95
DRB/DRC	1000	120	T-20	24.25
DYS/DYV/BHC	600	120	G-7	13.95
EJL	200	24	MR-13	14.95
ELC	250	24	MR-13	12.95
ELH	300	120	MR-13	16.50
ENX	360	82	MR-13	19.50
EXR	300	82	MR-16	16.25
EYB	360	82	T-3-1/2	14.95
FCR-BLB	100	12	T-3	6.25
FCS	150	24	T-4	6.45
FHS	300	82	MR-13	15.95

T-6

T-10

T-20

G-7

MR-13

MR-16

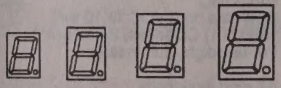
T-3-1/2

T-4

T-3

7 SEGMENT LED DISPLAYS

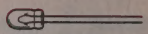
CA: Common Anode
CC: Common Cathode



Part#	Character Height	Color	Description	Price
25-295	.3"	Red	CC (RHDP) LTS2301AE	$ .35
25-180	.3"	Green	CC (RHDP) FND337	.35
25-181	.3"	Yellow	CC (LHDP) MAN54A	.35
25-186	.43"	Yellow	CA (RHDP) MAN4580A	.45
25-187	.43"	Yellow	CA (RHDP) DLY7660	.45
25-188	.43"	Yellow	CC (RHDP) MAN4540A	.45
25-194	.56"	Orange	CA (RHDP) FND557	.45

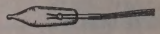
BULBS

1/8" dia, 1" leads



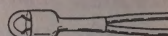
25-265 ..... 5 VDC @ 60 mA .....$ .30

1/8" dia, 11" leads



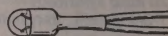
25-208 ..... 6 VDC @ 20 mA .....$ .35

3/16" dia, 6" leads



25-219 ..... 8 VDC @ 35 mA .....$ .35

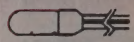
3/16" dia, 6" leads



25-220 ..... 14 VDC @ 35 mA .....$ .35

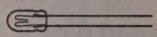
MINIATURE LEAD LAMP

3/16" diameter
6" lead



Part#	Voltage	Current	Price
25-222	8 VDC	70 mA	$ .35
25-300	9 VDC	60 mA	.35
25-223	12 VDC	35 mA	.35
25-224	12 VDC	70 mA	.35

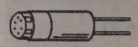
14 VDC T-1 BULB



Mfg. - JKL, #CW1240
1/8" dia. - 7/8" lead
14 VDC @ 40mA, .12 MSCP
C-2F filament, 16,000 AVG life hours
T-1 wire terminal

	(1-99)	(100-Up)
25-290	$ .35	$ .30

SIX CHIP LED



Mfg. - OSHINO
14 VDC @ 20 mA. 6mm LED dia., bi-pin base. Typical luminous intensity: Super red & yellow 70 IV (CD/M), green 110 IV (CD/M).

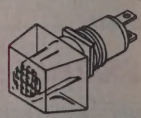
25-242.....Super red.....$ .99
25-243.....Yellow.....$ .99
25-244.....Green.....$ .99

14 VDC INDICATOR LAMP

Mfg. - IMLEC
Mfg.# - FK14-202Y
14 VDC @ 40 mA. T-1 yellow bulb. Chrome plated brass body with macrodome lens to allow front lamp replacement. Mounts in a 17/64" hole.

25-298.....$ .75

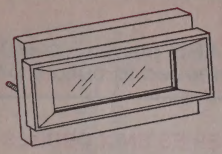
12 VDC INDICATOR LAMP



Mounts in a .575" hole
.75" square, OA depth 1-1/2". Operates on 12 VDC @ 50 mA. Great for automobile use.

25-281.....Red.....$ .99
25-282.....Amber.....$ .99
25-283.....Green.....$ .99

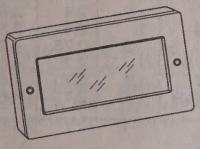
3-1/2 DIGIT LCD PANEL METER



2-5/8" x 1-3/4" x 1"
9 VDC powered
3-1/2 digit LCD panel meter with black plastic bezel and face plate. Through panel mounting. 1/2" character height, adjustable decimal point, auto polarity >100 M ohm input impedance. Two readings/sec. .5% accuracy. Holes on board to add scale resistors. ***Meter power must be isolated from input (CANNOT monitor own power source).***

	(1-9)	(10-99)	(100-Up)
PM-128	**$7.89**	**$6.25**	**$5.25**

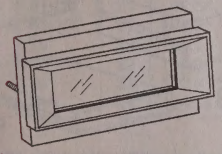
3-1/2 DIGIT LCD PANEL METER



2-5/8" x 1-3/4" x 1/2"
Same as above without bezel.

39-165.....$8.95

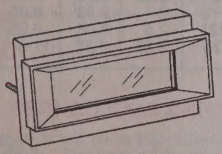
3-1/2 DIGIT LCD PANEL METER WITH BACKLIGHT



2-5/8" x 1-3/4" x 1"
7-11 VDC powered
Bright green backlight makes meter easy to see at night or in sunlight. Requires no extra circuits for backlight to work. 3-1/2 digit LCD panel meter with black plastic bezel and face plate. Through panel mounting. 1/2" character height. 200mV DC input >100 M ohm input impedance. .5% accuracy. ***Meter power must be isolated from input (CANNOT monitor own power source).***

PM-188BL.....$9.95

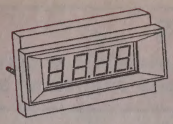
4-1/2 DIGIT LCD PANEL METER



2-5/8" x 1-3/4" x 1"
7-12 VDC (9V battery) powered
4-1/2 digit LCD panel meter with black plastic bezel and face plate. Through panel mounting. 3/8" character height. 200mV DC input, adjustable decimal point, auto polarity >100 M ohm input impedance. .5% accuracy. Holes on board to add scale resistors. ***Meter power must be isolated from input (CANNOT monitor own power source).***

PM-328.....$14.95

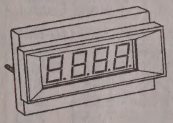
LED DIGITAL PANEL METER



2-5/8" x 1-3/4" x 1"
7-12 VDC powered
3-1/2 digit LED panel meter with black plastic bezel and face plate. Through panel mounting. .56" character height. 200mV DC input, adjustable decimal point, auto polarity >100 M ohm input impedance. Two readings/sec. .5% accuracy. Holes on board to add scale resistors. ***Meter power must be isolated from input. (CANNOT monitor own power source).***

PM-129A.....$9.95

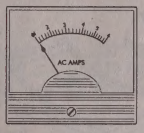
LED DIGITAL PANEL METER



2-5/8" x 1-3/4" x 1"
5 VDC powered
3-1/2 digit LED panel meter with black plastic bezel and face plate. Through panel mounting. .56" character height. 200mV DC input, adjustable decimal point, auto polarity >100 M ohm input impedance. Two readings/sec. .5% accuracy. Holes on board to add scale resistors. ***Meter power can share common with input. (CAN monitor own power source with scaling resistors).***

PM-129B.....$12.95

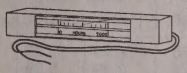
0-6 AC AMP METER



2-1/2" x 2-1/4" x 1-1/2"
Mounts in a 2" dia round hole. Direct read, zero left, black legend on white face with zero adjust.

39-160.....$2.95

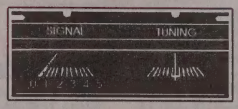
ELAPSED TIME METER



Mfg. - CURTIS
Mfg.# - 120CP3
1-7/8" x 3/8" x 7/16", 115/240 VAC, 50-400 Hz. 2,000 hour time indicator. Mounts with ABS tape.

39-208.....$1.95

DUAL PANEL METER SIGNAL/TUNING



4-1/4" x 1-3/4" x 1-1/2" deep
Two separate meters in one plastic enclosure. Black background with white scaled art work and pointer. Flush mounts with a sloped reading scale. A rear center hole allows auxiliary lighting. The right signal meter is zero left with full scale deflection at 500 micro amps. The left tuning meter is center zero with full scale deflection. 250 micro amp either side.

39-159.....$1.99

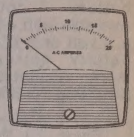
AC AMP PANEL METERS

0-10 AMP

Mfg. - GE
2-3/4"sq x 1-3/4"D
2-1/8"dia hole
Zero adjust, 2% accuracy

39-213.....$9.95

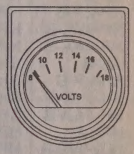
0-20 AMP



Mfg. - GE
2-3/4"sq x 1-3/4"D
2-1/4"dia hole
Zero adjust, 2% accuracy
With shield

39-214.....$14.95

VOLTMETER GAUGE KIT



8-18 volt scale
Mfg. - ACTRON
for SUNPRO
2-5/8" black bezel, chrome snap-on bezel with white face. 12 volt internal lighting. Includes complete instructions and mounting hardware.

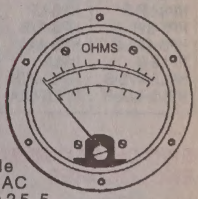
39-216.....$9.95

AMMETER GAUGE KIT

-60 to 0 to +60 amp scale
Mfg. - ACTRON
for SUNPRO
2-5/8" black bezel, chrome snap-on bezel with white face. For 12 volt negative ground systems. 12 volt internal lighting. Includes complete instructions and mounting hardware.

39-215.....$9.95

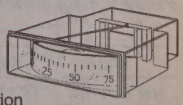
50 MICROAMP PANEL METER



Mfg. -
PHRASTRON
4-1/2" dia x 1-5/8"D
Mounts in a 3-1/2" round x 1-1/4" hole.
50 µA Full Scale Deflection. Three AC and DC volt scales: 0-2.5, 5 and 10. One resistance scale from 0 to infinity. White face. Scales in green, black and blue. Zero adjustable. Mil-Spec. Includes mounting hardware and rubber gasket. Removeable back.

39-166.....$6.99

AC VOLT METER



Mfg. - MODUTEC
2" x 1-3/4" x 13/16"
0-75 VAC scale
8 VAC full scale deflection

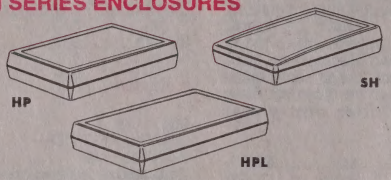
39-212.....$2.95

ELECTRONIC ENCLOSURE KITS

PacTec series instrument enclosure kits are constructed of molded ABS plastic. (94HB-1/8" thick) All kits are individually packaged and include all assembly hardware needed to build a prototype kit.

HP, HPL AND SH SERIES ENCLOSURES

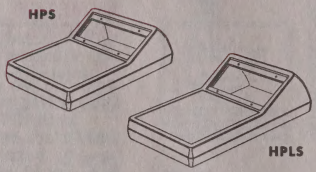
These enclosures include a top and bottom cover. Available with either a 9 volt or a 4"AA" battery compartment. Available in Black and PC Bone.



Black Part#	PC Bone Part#	Outside Dimensions (in) Height	Width	Length	Price Each (1-39)	(40-Up)
HP-B	HP	1.12	3.6	5.75	$4.99	$4.25
HP-LP-B	HP-LP	.81	3.6	5.75	5.49	5.25
HP-9VB-B	HP-9VB	1.29	3.6	5.75	5.65	5.15
HP-4AA-B	HP-4AA	1.29	3.6	5.75	7.55	7.05
SH-B	SH	1.12	3.6	5.75	6.39	5.99
SH-LP-B	SH-LP	.81	3.6	5.75	6.19	5.59
SH-9VB-B	SH-9VB	1.29	3.6	5.75	6.85	6.29
SH-4AA-B	SH-4AA	1.29	3.6	5.75	7.69	7.05
HPL-B	HPL	1.12	4	7.5	8.48	7.75
HPL-9VB-B	HPL-9VB	1.29	4	7.5	8.58	7.85
HPL-4AA-B	HPL-4AA	1.29	4	7.5	10.49	9.75

HPS AND HPLS SERIES ENCLOSURES

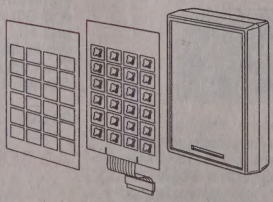
These enclosures include a top and bottom cover. Available with either a 9 volt or a 4"AA" battery compartment. Available in Black and PC Bone.



Black Part#	PC Bone Part#	Outside Dimensions (in) Height	Width	Length	Price Each (1-39)	(40-Up)
HPS-B	HPS	1.12/1.92	3.6	5.75	$6.49	$5.99
HPS-LP-B	HPS-LP	.81/1.61	3.6	5.75	8.99	8.39
HPS-9VB-B	HPS-9VB	1.29/1.92	3.6	5.75	10.25	9.65
HPS-4AA-B	HPS-4AA	1.29/1.92	3.6	5.75	10.75	9.99
HPLS-B	HPLS	1.12/1.92	4	7.5	10.15	9.35
HPLS-9VB-B	HPLS-9VB	.81/2.26	4	7.5	10.99	10.25
HPLS-4AA-B	HPLS-4AA	1.29/2.26	4	7.5	11.25	10.49

SWITCH-PAC MEMBRANE SWITCH ENCLOSURES

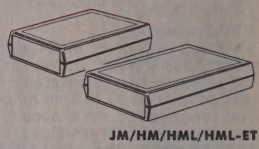
Consists of standard membrane switch and enclosure. Switches features steel-dome tactile membrane and printable overlay with ribbon cable and connector. Rugged enclosures have cable slot opening, 9 volt battery compartment and are recessed to accept membrane switches. Black in color.



Part#	Keypad	Matrix Enclosure (in)	Price
HM-9VB-SW	3 x 4	2.4 x 3.8 x 1	$12.99
HML-9VB-SW	3 x 5	2.75 x 4.6 x 1	15.49
HP-9VB-SW	4 x 6	3.6 x 5.75 x 1.29	21.95

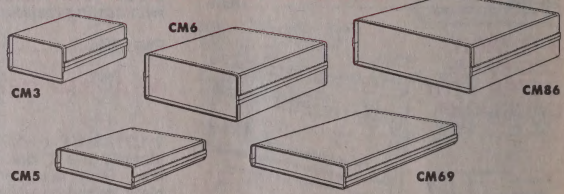
JM, HM AND HML SERIES ENCLOSURES

The smallest enclosures in the PacTec line. The HM and HML series kits are composed of three pieces: top cover, bottom cover and front panel. The JM series are composed of four pieces: top cover, bottom cover, front panel and rear panel. Available in Black and PC Bone.



Black Part#	PC Bone Part#	Outside Dimensions (in) Height	Width	Length	Price Each (1-39)	(40-Up)
JM22-B	JM22	1	2.4	2.27	$2.75	$2.49
JM24-B	JM24	1	2.4	3.8	3.99	3.49
HM-B	HM	.9	2.4	3.8	3.75	3.25
HM-9VB-B	HM-9VB	1	2.4	3.8	4.99	4.49
HML-B	HML	.9	2.75	4.6	3.99	3.49
HML-9VB-B	HML-9VB	1	2.75	4.6	4.99	4.25
HML-ET-B	HML-ET	1.4	2.75	4.6	4.49	3.99
HML-ET-9VB-B	HML-ET-9VB	1.5	2.75	4.6	4.75	4.25

CM SERIES DESKTOP ENCLOSURES



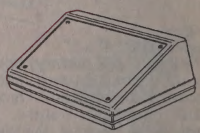
Lightweight and exceptionally durable. CM series kits are composed of four pieces; top cover, bottom cover, front and rear panels. Available in Black and PC Bone.

Black Part#	PC Bone Part#	Outside Dimensions (in) Height	Width	Length	Price Each (1-39)	(40-Up)
CM3-150-B	CM3-150	1.75	3.33	5.25	$9.45	$8.99
CM5-125-B	CM5-125	1.5	5.08	5.25	9.80	9.35
CM5-200-B	CM5-200	2.25	5.08	5.25	11.25	10.49
CM6-225-B	CM6-225	2.5	6.08	6.25	13.60	12.99
CM6-300-B	CM6-300	3.25	6.08	6.25	14.85	13.99
CM59-135-B	CM59-135	1.56	5.57	8.78	16.49	15.25
CM69-120-B	CM69-120	1.38	6.33	9.5	16.49	15.25
CM86-175-B	CM86-175	2	8.08	6.25	15.99	13.99
CM86-225-B	CM86-225	2.5	8.08	6.25	17.60	16.45
CML912-200-B	CML912-200	2.25	9.33	11.8	25.95	23.95

SLOPED PROTOTYPING ENCLOSURES

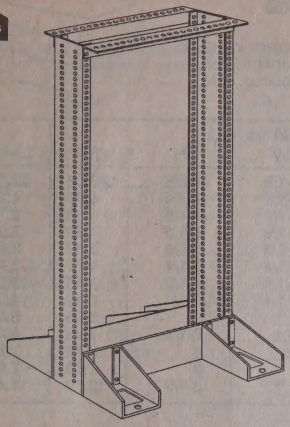
PACTEC®

High impact ABS construction enclosure customized to accommodate displays, keypads or special devices. Includes hardware, aluminum keyboard and input/output panels. Dimensions are outside dimensions.



Black Part#	PC Bone Part#	Dimensions (in) Height	Width	Length	Price Each
KEU-7B	KEU-7	.45/2.99	7	5	$19.95
KEU-10B	KEU-10	.69/4.09	10	8	27.85

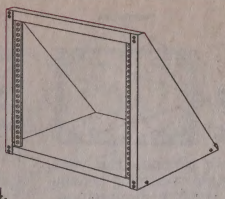
19" RACKS



.125" thick 3003 H-14 Aluminum rails. Drilled & tapped 1C-32, EIA standard spacing. Top & side rails available in natural bare aluminum or black powder coat. 16 AWG black powder coat steel base. Shipped unassembled with hardware.

Part#	Color	Height	Wt	Price
TBR-27	Plain	47-1/4"	20	$89.95
TBR-27B	Black	47-1/4"	20	99.95
TBR-35	Plain	61-/14"	21	99.95
TBR-35B	Black	61-1/4"	21	109.95
TBR-40	Plain	70"	22	104.95
TBR-40B	Black	70"	22	114.95
TBR-45	Plain	84"	24	110.95
TBR-45B	Black	84"	24	124.95

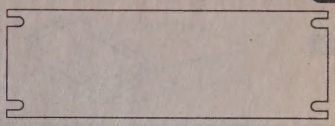
BENCH TOP OPEN RACKS



Aluminum Rails:
.06" thick 3003 H-14.
Punched .281" clearance holes, EIA standard spacing.
Aluminum Base:
.060" thick 3003 H-14.
12"(D) x 20.81"(W). Natural bare Aluminum or black powder coat. Shipped unassembled with hardware & 4 bumpon feet.

Part#	Color	Height Panel	Height O/A	Wt	Price
DR14	Natural	18	18	7	$44.95
DR14B	Black	18	18	7	52.95
DR21	Natural	21	25	8	52.95
DR21B	Black	21	25	8	59.95
DR28	Natural	28	32	9	59.95
DR28B	Black	28	32	9	69.95

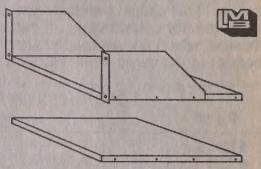
19" RACK PANELS



.125" thick 3003 H-14 Aluminum
Notched for standard rails. Natural bare aluminum or black texture coat.

Part#	Color	Height	Wt	Price
175	Natural	1-3/4"	.4	$5.95
175B	Black	1-3/4"	.4	7.95
350	Natural	3-1/2"	.8	9.49
350B	Black	3-1/2"	.8	11.49
525	Natural	5-1/4"	1.2	13.25
525B	Black	5-1/4"	1.2	15.95
7	Natural	7"	1.6	16.99
7B	Black	7"	1.6	19.95
1050	Natural	10-1/2"	2.4	23.99
1050B	Black	10-1/2"	2.4	25.75
1050G	Gray	10-1/2"	2.4	25.75

ADJUSTABLE RACK SHELF FOR 19" OPEN RACKS



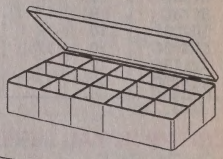
Shelf 1/16" aluminum, sides 1/8" aluminum
3 adjustable holes on each side of shelf with matching 6-32 nuts for added strength. Shelf is flanged for maximum support and is reversible. Comes with hardware. Complete assembly sides and shelf.

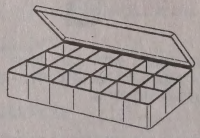
PLAIN	BLACK
ASH-350-19.....3-1/2" height.....$57.95	ASH-350-19-B.....3-1/2" height.....$65.95
ASH-525-19.....5-1/4" height.....$59.95	ASH-525-19-B.....5-1/4" height.....$69.95
ASH-7-19.....7" height.....$64.95	ASH-7-19-B.....7" height.....$69.95

AKRO-MILS UTILITY BOXES

AKRO-MILS

These see-through plastic utility boxes protect small components, fittings, electronic parts, and hardware. Choose from three sizes of clarified polypropylene boxes with hinged lids. Part 14-189 has six permanently molded-in compartments. 14-190 & 14-191 have permanent partitions and removable dividers.



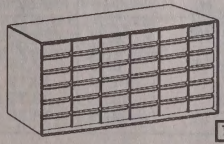


Part#	No. of Compt.	Inside Dimensions (in.) L	W	H	1-9	10-Up
14-189	6 equal	4-5/8	3	1-3/16	$1.25	$ .99
14-190	6-18	8-5/16	4-5/8	1-3/8	3.25	2.75
14-191	5-15	11	6-1/2	2-1/4	4.95	4.59

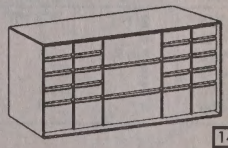
AKRO-MILS ECONOMY CABINETS

AKRO-MILS

These cabinets feature a one piece high strength ABS copolymer frame with textured gray finish. They are designed for stacked arrangements or for individual units. They are ideal for organizing and storing small parts. Transparent dividable drawers allow for easy identification.

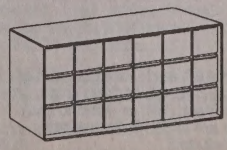


14-186



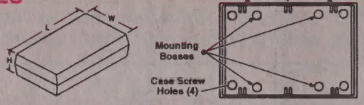
14-187

Part#	No. Drawers	Inside Drawer Dim.(in.) W	H	D	Cabinet Size (in.) W	H	D	1-9	10-Up
14-186	36	2-3/4	1-1/4	5-3/4	18-1/4	8-5/8	6-3/8	$34.95	$32.85
14-187	23 { 16-	2-3/4	1-1/4	5-3/4	18-1/4	8-5/8	6-3/8	34.95	32.85
	23 { 4-	2-3/4	2-1/2	5-3/4					
	23 { 3-	5-5/8	2-1/2	5-5/8					
14-188	18	2-3/4	2-1/2	5-3/4	18-1/4	8-5/8	6-3/8	34.95	32.85



14-188

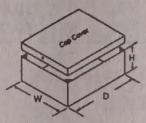
HIGH IMPACT ABS SMALL INSTRUMENT BOXES



Scratch resistant grain finish. Available in black or almond. Has card guides for verticle mounting of circuit boards. Internal mounting bosses for horizontal circuit boards. Dimensions are INSIDE dimensions. BK=Black, AL=Almond. Hardware included.

Part#	Dimensions (in.) L	W	H	Verticle Card Pos.	MTG Bosses	1-9	10-Up
401-BK	3	2	1-1/4	2	4	$4.44	$3.99
401-AL	3	2	1-1/4	2	4	4.44	3.99
402-BK	4	3	1-1/4	3	4	5.89	5.29
402-AL	4	3	1-1/4	3	4	5.89	5.29
403-BK	5-1/4	3	1-1/4	4	4	7.59	6.75
403-AL	5-1/4	3	1-1/4	4	4	7.59	6.75
404-BK	6-1/2	4-1/2	1-1/4	5	8	7.79	6.99
404-AL	6-1/2	4-1/2	1-1/4	5	8	7.79	6.99

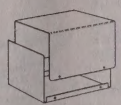
CAP COVER CHASSIS



The LMB unpainted aluminum chassis is advanced construction and quality for your better project application. This chassis enables you to use either the top or bottom for construction. It can also be mounted on its side, which allows for construction on both top and bottom at the same time. Hardware included.

Part#	Dimensions (in.) L	W	H	Metal Thickness	1-9	10-Up
572C	5	7	2	.04	$12.99	$12.25
573C	5	7	3	.04	13.75	13.25
5103C	5	9-1/2	3	.04	16.49	15.99
772C	7	7	2	.04	13.75	13.25
792C	7	9	2	.04	16.49	15.99
7123C	7	12	3	.04	20.99	19.99
842C	8	4	2	.04	11.49	10.99
8123C	8	12	3	.04	22.99	21.99
8173C	8	17	3	.04	29.99	28.99
10123C	10	12	3	.04	24.99	23.99
10173C	10	17	3	.05	37.99	36.99
12173C	12	17	3	.05	41.99	39.99
13173C	13	17	3	.05	48.99	46.99

CROWN ROYAL SERIES

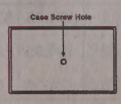


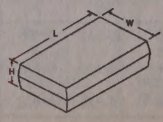
.05" painted aluminum cases with dark blue top and light blue bottoms. Outside dimensions in inches. Hardware included.

Part#	Dimensions (in.) L	W	H	1-9	10-Up
CR-221	2-1/4	2-1/8	1-3/4	$4.99	$4.55
CR-442	4	4	2	8.25	7.49
CR-532	5-1/4	3	2-1/8	8.39	7.55
CR-645	6	4	5	14.59	13.19
CR-753	7	5	3	15.25	13.75
CR-864	8	6	4-1/2	19.99	18.35

HIGH IMPACT ABS SUB-MINIATURE ENCLOSURES

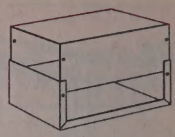
High impact ABS enclosures consist of durable scratch resistant grain finish. Available in Black (BK) or Almond (AL). Dimensions are INSIDE dimensions. Hardware included.





Part#	Dimensions (in.) L	W	H
300-BK	2-1/8	1-3/8	9/16
300-AL	2-1/8	1-3/8	9/16
301-BK	2-1/4	1-5/8	3/4
301-AL	2-1/4	1-5/8	3/4
302-BK	2-3/8	1-7/8	15/16
302-AL	2-3/8	1-7/8	15/16
(1-9) $3.79 (10-Up) $3.43			

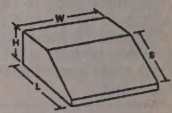
JIFFY BOX CHASSIS



.04" unpainted aluminum.
Push together to close and catches snap into place. A slight pressure opens box. Ideal where quick access is required. No hardware required.

Part#	Dimensions (in.) L	W	H	1-9	10-Up
J-870	2-3/4	2-1/8	1-5/8	$3.05	$2.77
J-871	2-3/4	2-1/8	2-3/4	4.99	4.79
J-872	3-1/4	2-1/8	1-1/8	3.08	2.75
J-873	3-1/2	2-1/8	1-5/8	3.29	2.99
J-874	4	2-1/8	1-5/8	3.47	3.09
J-875	4	2-1/4	2-1/4	4.19	3.75
J-877	4-1/4	2-1/4	1-1/2	3.45	3.09
J-878	5	2-1/4	2-1/4	4.49	4.05
J-879	5	4	3	6.25	5.59
J-880	5-1/4	3	2-1/8	4.95	4.45
J-881	6	5	4	8.79	7.89
J-882	7	5	3	8.89	7.99
J-884	10	6	3-1/2	12.79	11.49

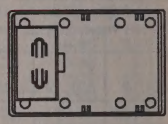
ALUMINUM MODULAR DESKTOP CONSOLES



.05" aluminum painted beige/ivory. Furnished with four white pressure sensitive rubber feet. Easy access for installation of components. *The length of the flat top is 1/2" of the total length. Hardware included.

Part#	Dimensions (in.) L	W	H	S	1-9	10-Up
MDC432-BI	4	3	2	2-1/2	$8.75	$7.99
MDC532-BI	5	3	2	2-7/8	9.75	8.95
MDC642-BI	6	4	2-1/4	3-3/8	11.75	10.59
MDC752-BI	7	5	2-1/2	3-7/8	13.19	11.89
MDC862-BI	8	6	2-3/4	4-1/2	16.89	15.25
MDC1042-BI	10	4.5	2-1/2	5-1/2	17.49	15.69
MDC1183-BI	11	8	3-1/2	6-1/8	25.45	22.89
MDC13104-BI	13	10	4	7-1/8	33.49	30.19
MDC15155-BI	15	15	4-1/2	8-1/4	52.99	47.95

HIGH IMPACT ABS WITH 9V BATTERY COMPARTMENT

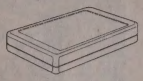


These UL high-impact ABS cases consist of durable scratch resistant black grain finish. They feature a 9 volt battery compartment, card guides for verticle mounting or circuit boards, and mounting bosses for horizontal circuit board. Hardware included.

Part#	Dimensions (in.) L	W	H	Verticle Card Pos.	MTG Bosses	1-9	10-Up
501	2-3/4	2-3/8	1-1/4	1	4	$4.89	$4.49
503	2-3/4	4-1/4	1-1/4	3	4	8.59	8.19
506	2-3/4	3	1-3/4	2	4	6.35	5.99
511	2-3/4	4-1/4	2-1/4	3	4	8.99	8.49
512	4-1/2	5-1/2	2-1/4	4	6	10.69	9.99

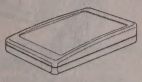
PROJECT ENCLOSURES

Mfg. - SIMCO
1/8" thick ABS plastic features soft textured finish. Complete cases with screws.



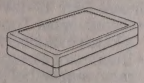
6-1/4" x 3-3/4" x 1-1/8"

14-434.....Putty.....$2.99
14-436.....Black.....$2.99



6-1/4" x 3-3/4" x 1-1/8"
Case thickness slopes down to 3/4"

14-437.....Dark Grey.....$3.49
14-438.....Black.....$3.49



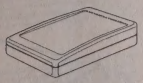
6-1/4" x 3-3/4" x 1-3/8"

Dark Grey w/9V compartment door
14-427.....$2.99

Putty w/9V compartment door
14-428.....$2.99

Beige w/9V compartment door
14-429.....$2.99

14-430.....Black.....$2.99



6-1/4" x 3-3/4" x 1-3/8"
Case thickness slopes down to 1-1/8"

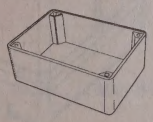
Beige w/9V compartment door
14-431.....$3.49

Black w/9V compartment door
14-432.....$3.49

14-433.....Black.....$3.49

PROJECT ENCLOSURE

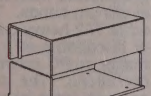
New



3" x 2-7/8" x 1-9/16"
Heavy duty 1/8" molded black plastic boxes. Boxes have built-in stand offs for PC or perf board. 3" x 2-5/16" center mounting holes.

14-000.....$1.25

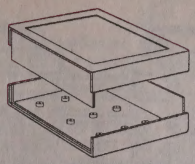
CONVERTA-BOX



5-7/8" x 3" x 1-5/8"
This black phenolic enclosure consists of a two sided cover and a two ended bottom. They slip together and are secured by four screws (included). Features tapped brass inserts for the 4 screws plus four additional brass tapped inserts and two card guides. It also has two optional punch holes on the bottom that can be knocked out for wall mounting.

14-115.....$3.49

PROJECT BOX



Mfg. - SIMCO
Durable 4 piece box made of 1/8" thick ABS plastic features soft textured finish. Molded-in card guides and mounting bosses. Complete case with screws.

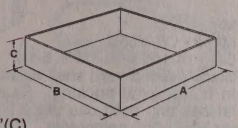
***Case Size* 8" x 6-1/4" x 2-1/2"**

14-415.....Tan with black panels.....$3.95
14-416.....Tan with Choc Brown panels....$3.95
14-417.....Tan with beige panels.....$3.95
14-419.....Light Grey with black panels.....$3.95
14-420.....Putty with black panels.....$3.95
14-421.....Cream with black panels.....$3.95
14-422.....Black with black panels.....$3.95
14-147.....Brown with brown panels.....$3.95
14-149.....Brown with black panels.....$3.95

***Case Size* 9-1/2" x 6-1/4" x 1-1/2"**

14-423.....Beige with black panels.....$4.95
14-424.....Putty with black panels.....$4.95
14-425.....Dark grey with black panels.....$4.95

ALUMINUM OPEN CHASSIS

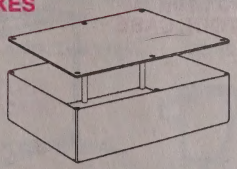


7"(A) x 7"(B) x 2"(C)

14-127.....$2.99

DIE-CAST ALUMINUM ECONOBOXES

BUD



Mfg. - BUD
Thick, die-cast 380 aluminum alloy construction offers excellent screening properties. Economical, lightweight, easy to machine enclosures are ideal as instrument and meter cases, filter networks, junction boxes, switches, audio and radio frequency distributors. Feature close-fitting flanged lids that fasten to body with furnished flat head screws.

3-5/8"L x 1-1/2"W x 1-1/16"H
CU-123.....$5.99

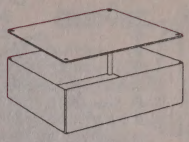
4-3/8"L x 2-3/8"W x 1-1/16"H
CU-124.....$6.99

4-3/8"L x 3-11/16"W x 2-1/16"H
CU-234.....$11.49

7-3/16"L x 4-45/64"W x 2-1/16"H
CU-247.....$18.49

7-3/16"L x 4-45/64"W x 3-1/16"H
CU-347.....$20.75

PROJECT ENCLOSURES



Heavy duty 3/16" molded plastic boxes with aluminum covers. Boxes have built-in stand offs for PC or perf board listed below. Each case has brushed aluminum cover and screws.

2-11/16" x 1-11/16" x 1-3/16"
(1-99) (100-Up)
JAL-1.....$1.35....$1.25

3-5/16" x 2-1/8" x 1-3/8"
(1-99) (100-Up)
JAL-2.....$1.50....$1.35

4-1/8" x 2-3/4" x 1-9/16"
(1-99) (100-Up)
JAL-3.....$1.99....$1.85

5-1/4" x 3-1/4" x 1-9/16"
(1-99) (100-Up)
JAL-4.....$2.75....$2.59

SOLDERABLE PERF BOARD

Perf board with mounting holes designed to fit our project enclosures (JAL 1-4) above. Boards have holes on .1" matrix to fit most standard components and have copper solder rings on one side.

1-1/2" x 1-3/4" *Fits JAL-1 enc.*
(1-99) (100-Up)
JALPC-1.....$ .59.....$ .54

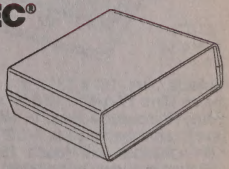
1-7/8" x 2-1/4" *Fits JAL-2 enc.*
(1-99) (100-Up)
JALPC-2.....$ .89.....$ .79

2-1/2" x 3-1/8" *Fits JAL-3 enc.*
(1-99) (100-Up)
JALPC-3.....$1.25....$1.12

3" x 4-1/4" *Fits JAL-4 enc.*
(1-99) (100-Up)
JALPC-4.....$1.75....$1.59

DESKTOP ENCLOSURES

PACTEC®



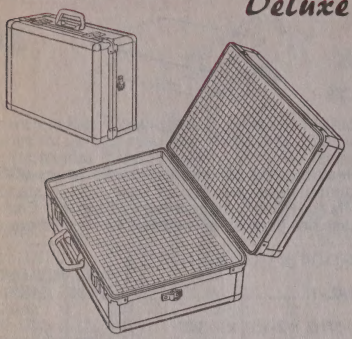
Mfg. - PAC TEC
Lightweight and exceptionally durable. Includes top and bottom covers, front and rear panels. PC bone in color.

6-1/4"(L) x 8"(W) x 2"(H)
CM86-175.....$8.99

6-1/4"(L) x 8"(W) x 2-1/2"(H)
CM86-225.....$8.99

ALUMINUM CASES

Deluxe



• Egg shell foam in upper lid • Removeable squares in lower lid • Shoulder strap included • Locking Latches w/ two keys

Outside Dim: 15-3/4" x 12-3/4" x 5"
Inside Dim: 15" x 12" x 4-1/2"
Inside Removeable Area: 14-1/2" x 10-1/2" x 2"
(each removeable sq is 2" x 1/2" x 1/2"
• 3/4" thick foam bottom piece

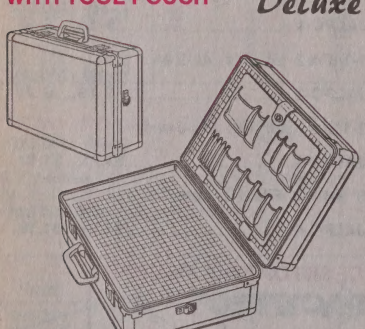
14-442.....$39.95

Outside Dim: 18" x 13" x 6"
Inside Dim: 17-1/4" x 12-1/4" x 5-1/2"
Inside Removeable Area: 15-1/4" x 10-1/2" x 2-1/2"
(each removeable sq is 2-1/2" x 1/2" x 1/2"
DIVIDERS: 2) 12-1/2" long x 3" High
2) 8" long x 3" High
2) 4-1/2" long x 3" High

14-443.....$49.95

ALUMINUM CASE WITH TOOL POUCH

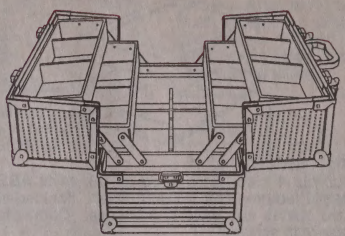
Deluxe



Outside Dim: 18" x 13" x 6"
Inside Dim: 17-1/4" x 12-1/4" x 5-1/2"
Inside Removeable Area: 15-1/4" x 10-1/2" x 2-1/2"
(each removeable sq is 2-1/2" x 1/2" x 1/2"
• Removeable Tool Pouch: 15-1/2" x 12"
(Pouch includes 14 pockets)
• Egg shell foam in upper lid
• Removeable squares in lower lid
• Shoulder strap included
• Locking Latches w/ two keys
DIVIDERS: 2) 12-1/2" long x 3" High
2) 8" long x 3" High
2) 4-1/2" long x 3" High

14-444.....$59.95

RETRACTABLE TRAY TOOL BOX



Outside dimensions: 14-1/4" x 8-1/2" x 9-1/4"
Adjustable dividers, foam padding, keyed locks and shoulder strap. Perfect for parts carriers, tackle box, camera case, make-up etc. Aluminum top-open dual tiered tray that opens to each side with adjustable compartments for easy organization. Riveted seams, aluminum borders, chromed steel corners, hinged side and anti-slip handle and rubber feet

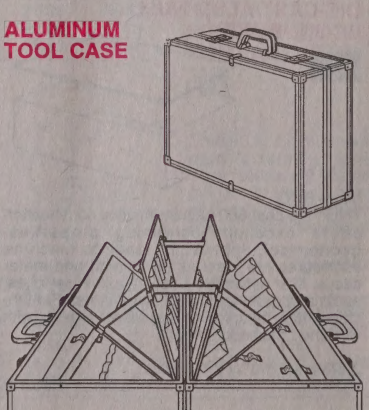
14-446.....$74.95

CAMCORDER CARRYING CASE

Mfg. - JVC
Mfg.# - CB-V35U
OD - 14-1/2" x 10-1/4" x 5-1/2"
Black molded hard shell plastic carrying case. In it's original packing. Features sure-lock latches and solid one piece handle. Intended for VHS JVC camcorder. Stores, carries and protects camcorders or other equipment.

14-410.....$9.95

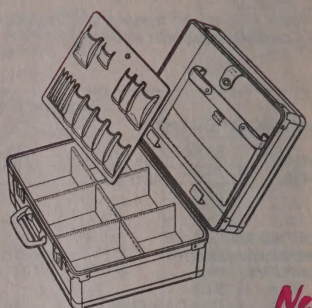
ALUMINUM TOOL CASE



Outside Dim: 18-1/2" x 13-3/4" x 6-3/4"
Inside Dim: 17-1/2" x 12-3/4" x 6-1/4"
• 4 Tool Sleeve Dividers: 17" x 12" each
• 59 Pockets
• 103 Elastic Sleeves
• Locking Latches w/ two keys

14-445.....$79.95

ALUMINUM CASE WITH TOOL POUCH

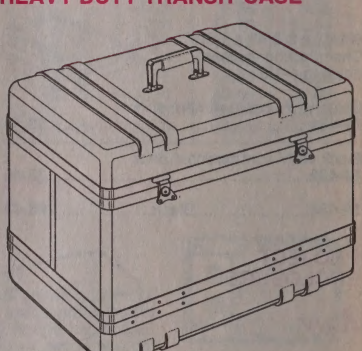


New

Outside Dim: 18" x 13" x 6"
Inside Dim: 17-1/4" x 12-1/4" x 5-1/2"
• Removeable Tool Pouch: 15" x 12-1/2"
(Pouch includes 17 pockets)
• Document storage compartments under removeable tool pouch.
• Locking Latches w/ two keys
• Adjustable dividers in lower section with removeable center panel keeps tools secured in place.
DIVIDERS: 2) 12-1/2" long x 3-1/4" High
2) 4-1/4" long x 3" High
1) 8" long x 3" High

14-449.....$39.95

HEAVY DUTY TRANSIT CASE



Mfg. - GEMINI
Outside draft: 21" x 13" x 18" deep, 26 lbs
Inside dim: 19" x 10-1/2" x 16" deep
(including 3" lid)
Constructed of rugged gray A.B.S. with foam filled double walls and two reinforced double aluminum bands. The inner wall is constructed of T52 heavy duty aluminum. This container is capable of transporting delicate instruments or PC boards under the most adverse conditions. The inside has 3 compartments, one with foam inserts ID 6" x 4" x 13" deep, one 11-1/2" x 5" x 7" deep with 6 edge card guides and foam bottom and one 19" x 5" x 13" deep with 6 edge card guides and foam bottom. The lid features a continuous hinge, two (non-locking) pull down and twist latches and a hinged handle. Interior partitions not easily removable.

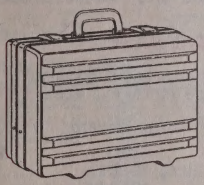
14-412.....$89.95

DELUXE LAPTOP AND PRINTER CASE

Outside dimensions:
14" x 7-1/2" x 10-1/2"
- A layer of high-density foam absorbs external impact and provides maximum protection.
- A second layer of soft foam adds cushioning and stability.
- 4 main heavy duty smooth running zippered compartment areas.
- 12" x 8-1/2" x 2-1/2" laptop storage area with velcro securing straps.
- 12" x 8-1/2" x 2-1/2" storage area with adjustable dividers.
- 6 letter size storage compartments.
- 2 hidden letter size storage compartments.
- 20 assorted sized storage pockets along with key ring holder, business card display, and adjustable shoulder strap.
- Leathery black construction.

14-447.....**$29.95**

XTRA LIGHT XTRA STRONG TOOL CASE

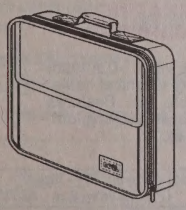


Mfg. - CHICAGO CASE
Black high impact polyethylene shell. Tongue and groove aluminum frame. Document pocket n lid. Full length piano hinge. Chemical resistant.

18" x 13" x 4-1/2", 6 lbs. 10 oz.
One pallet case
14-403.....**$65.95**

18" x 13" x 6", 8 lbs
Two pallet case
14-404.....**$99.95**

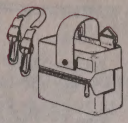
NOTEBOOK COMPUTER CARRYING CASE



Mfg. - DELL
Inside dimensions:
11-1/2" x 8" x 1-1/4"
Lightweight soft padded case made of black codura nylon. Inside compartment features dual zippered opening and side pockets for storage. Convenient outside accessory compartment has easy velcro-type closing. Topped off with sturdy, leather like hinged handle. Ideal for notebook computers.

14-405.....**$5.95**

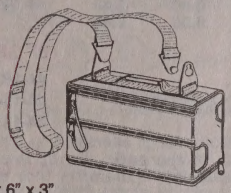
WALKMAN ZIPPER STYLE CARRYING CASE



4"sq x 2" deep
Easy to hang your walkman from your exercise equipment or your belt. It features easy access for plug in ear phone and velcro flap to access side selector buttons. It also has a pouch on the back to store the ear phones or your money. Constructed of codura nylon.

14-413.....**$ .49**

VINYL CARRYING CASE



Inside dim: 10" x 6" x 3"
This multi purpose padded black bag features a handle and a 1-1/2" wide nylon detachable shoulder strap that is adjustable in length from 28" to 48". Three side zippers for easy access. Originally designed for bag phones.

14-439.....**$1.59**

CELLULAR PHONE CARRYING CASE

11" x 7-1/2" x 4"
This black padded case has two separate zipper closing compartments that contain a fixed velcro retaining strap in addition to the main compartment which has a velcro close. It has a fixed handle and an adjustable & removable shoulder strap.

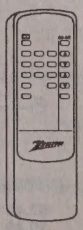
14-116.....Leather Like Vinyl.....**$3.95**

DELUXE METER CARRYING CASE

Mfg. - BECKMAN INDUSTRIAL
Mfg.# - DC215
8-1/4" x 4-7/8" x 3-1/2" O.D.
Deluxe brown case with three compartments designed to hold a multimeter, test leads and a current clamp.

DC215.....**$3.49**

ORIGINAL ZENITH REMOTE CONTROL

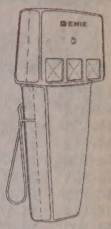


Mfg. - ZENITH
Replaces Mfg.# - 124-206-03
6-3/4" x 2"

Operates on two "AA" batteries. *(NOT INCLUDED)*

57-129.....**$5.95**

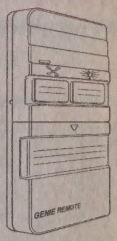
GENIE THREE BUTTON GARAGE DOOR REMOTE CONTROL



Mfg. - GENIE
Mfg.# - AT95
This remote controller will selectively activate three different Genie devices. All devices to be controlled must use the 390 radio frequency and all must use code switches. Operates on 9V battery included and includes a visor clip. (individually boxed) Complete with instructions.

AT95.....**$9.99**

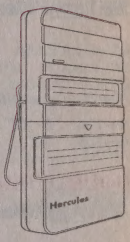
CEILING FAN REMOTE CONTROL SYSTEM



Mfg. - GENIE
Mfg.# - RM-GENC
4-1/4" x 2-1/2" x 1"
Rated 120 VAC, 60 Hz, 1 amp motor, 240 watts incandescent. This remote transmitter and the companion receiver unit are designed to control the speed of your ceiling fan and the brightness of it's lights. The left button provides three fan speed levels plus "off". The right button provides five light levels plus "off". A red indicator light on the transmitter illuminates when either button is pressed and the fan lights blink each time the fan speed is changed to show you that the receiver unit has accepted your new command. Note: This remote is also designed for fans without light kits. Unique compact design, easy to install. Operates up to 50ft.

RM-GENC.....**$19.95**

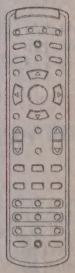
REPLACEMENT HERCULES GARAGE DOOR REMOTE CONTROL



Mfg. - HERCULES
Mfg.# - HT90-1BL
4-1/4" x 2-1/2" x 1"
Replaces 12 switch systems only! Powered by a standard 9V battery included along with a visor clip. Just match the security code switches to be identical to those in your opener. Operates on 390 mHz.

HT90-1BL.....**$9.95**

UNIVERSAL REMOTE CONTROL

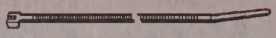


Mfg. - GI
Mfg.# - XRC-110
8-1/8" x 1-3/4" x 1"
Control your TV, VCR, cable box and digital audio tuners. 32 function easy-to-read keys. Simple set up to program. Easy to program instructions. Requires 2 "AA" alkaline batteries.

XRC-110.....**$4.99**

STANDARD CABLE TIES

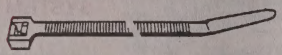
TytonHellermann



Part#	Length	Color	Tensile Strength	Bundle Size	100 per pack (1-24pks)	100 per pack (25-Up)
44-098	4"	Natural	18 lbs	3/4"	$1.79	$1.59
44-099	4"	Black	18 lbs	3/4"	1.79	1.59
44-111	6"	Natural	30 lbs	1-1/4"	2.75	2.49
44-112	6"	Black	30 lbs	1-1/4"	2.75	2.49
44-100	8"	Natural	30 lbs	2"	2.99	2.79
44-101	8"	Black	30 lbs	2"	2.99	2.79
44-113	11-1/4"	Natural	30 lbs	3"	5.45	4.99
44-114	11-1/4"	Black	30 lbs	3"	5.45	4.99
44-102	14-1/4"	Natural	30 lbs	4"	6.95	6.49
44-103	14-1/4"	Black	30 lbs	4"	6.95	6.49

HEAVY DUTY CABLE TIES

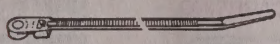
TytonHellermann



Part#	Length	Color	Tensile Strength	Bundle Size	50 per pack (1-9pks)	50 per pack (10-Up)
44-115	8-7/8"	Natural	120 lbs	2"	$9.25	$8.49
44-116	8-7/8"	Black	120 lbs	2"	9.25	8.49
44-117	11-7/8"	Natural	120 lbs	3"	9.85	9.25
44-118	11-7/8"	Black	120 lbs	3"	9.85	9.25
44-119	15-1/4"	Natural	120 lbs	4"	10.85	9.95
44-120	15-1/4"	Black	120 lbs	4"	10.85	9.95

MOUNTING CABLE TIES

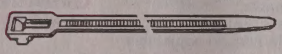
TytonHellermann



Part#	Length	Color	Tensile Strength	Bundle Size	100 per pack (1-24pks)	100 per pack (25-Up)
44-121	4-1/4"	Natural	18 lbs	3/4"	$3.99	$3.75
44-122	6-1/4"	Natural	30 lbs	1-1/4"	4.45	4.15
44-123	8-1/2"	Natural	50 lbs	1-3/4"	4.49	4.09

RELEASABLE HEAD CABLE TIES

TytonHellermann

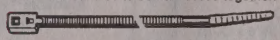


Part#	Length	Color	Tensile Strength	Bundle Size	100 per pack (1-9pks)	100 per pack (10-Up)
44-124	5-1/2"	Natural	50 lbs	1-3/8"	$8.75	$8.15
44-109	10"	Natural	50 lbs	2-3/4"	12.95	11.95

DOUBLE HEAD CABLE TIES

TytonHellermann

Allows two bundles to be harnessed together.

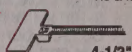


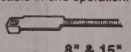
Part#	Length	Color	Tensile Strength	Bundle Size	100 per pack Price
44-125	8-1/4"	Natural	50 lbs	3/4"	$7.99
44-126	12"	Natural	50 lbs	1-1/2"	8.99
44-127	15-1/2"	Natural	50 lbs	2"	8.99

IDENTIFICATION CABLE TIES

TytonHellermann

Tie & Identify cable in one operation.

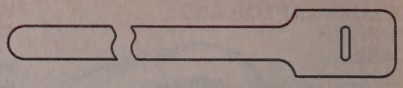




Part#	Length	Tensile Strength	Bundle Size	Pkg. Size	(1-9pks)	(10-Up)
44-128	4-1/4"	18 lbs	3/4"	100 pcs	$7.49	$7.25
44-129	8"	50 lbs	1-3/4"	100 pcs	10.49	9.99
44-172	15"	50 lbs	4"	100 pcs	15.99	14.99

RE-USEABLE GRIP-TIES

Pack of 10



Constructed of Velcro hook and loop material, grip-ties are a low profile, single piece fastening device that ban be removed and re-used for repetitive access to cabling. Because they cannot be over cinched, they are safe for Category 5 and fiberoptic cable. Available in a variety of sizes and colors, grip-ties can be used for most any wire bundling applications.

6" GRIP TIES - 1/2" WIDE, 1" MAX BUNDLE, 45 LBS STRENGTH

44-147.....Black.....pk10/**$4.99** 44-150.....Yellow.....pk10/**$4.99**
44-148.....Red.....pk10/**4.99** 44-151.....Green.....pk10/**4.99**
44-149.....Orange..... pk10/**4.99** 44-152.....Blue..... pk10/**4.99**

8" GRIP TIES - 1/2" WIDE, 1 3/4" MAX BUNDLE, 50 LBS STRENGTH

44-153.....Black.....pk10/**$5.49** 44-156.....Yellow.....pk10/**$5.49**
44-154.....Red.....pk10/**5.49** 44-157.....Green.....pk10/**5.49**
44-155.....Orange..... pk10/**5.49** 44-158.....Blue..... pk10/**5.49**

11" GRIP TIES - 1/2" WIDE, 2 5/8" MAX BUNDLE, 55 LBS STRENGTH

44-159.....Black.....pk10/**$6.75** 44-162.....Yellow.....pk10/**$6.75**
44-160.....Red.....pk10/**6.75** 44-163.....Green.....pk10/**6.75**
44-161.....Orange..... pk10/**6.75** 44-164.....Blue..... pk10/**6.75**

15" GRIP TIES - 3/4" WIDE, 3 7/8" MAX BUNDLE, 60 LBS STRENGTH

44-165.....Black.....pk10/**$13.19** 44-168.....Yellow.....pk10/**$13.19**
44-166.....Red.....pk10/**13.19** 44-169.....Green.....pk10/**13.19**
44-167.....Orange..... pk10/**13.19** 44-170.....Blue..... pk10/**13.19**

CABLE TIE MOUNTING BASE

White nylon bases with adhesive backs mounting. Insertion of ties can be made from all four sides.

Part#	Size	For Tie Size	100 per pack (1-9pks)	100 per pack (10-Up)
74-343	5/8" Sq	18 lb	$14.49	$13.99
74-344	3/4" Sq	18-30 lbs	19.95	19.49
74-345	1-1/8" Sq	18-50 lbs	24.99	23.99

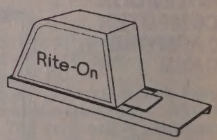
CABLE CLAMPS

TytonHellermann

Black color

Part#	Size	50 per pack (1-24pks)	50 per pack (25-Up)
74-246	1/4"	$1.95	$1.80
74-247	3/8"	2.15	1.99
74-248	1/2"	2.25	2.05
74-249	3/4"	2.99	2.75
74-250	1"	7.49	6.99

RITE-ON SELF-LAMINATING WIRE AND CABLE MARKERS

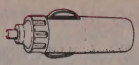


Seals legend under clear vinyl. Compact system designed to identify electrical cable, conduit, CATV coaxial cable, etc. Features high tack adhesive that resists flagging, dirt, oil, extreme temperatures etc.

Part No#	Write-On Area W x L	Marker Size W x L	Markers Per Roll	Wire Size Min Wire Size	Wire Size Min ASTM	Wire Size Max Wire Size	Wire Size Max ASTM	Price
74-427	3/4" x 1-1/4"	1/2" x 1-1/4"	200	.053"	16 ga.	.263"	#2	$8.34
74-429	3/4" x 3"	1" x 3"	90	.330"	#0	.625"	#5/8	9.53
74-430	3/4" x 6"	1" x 6"	40	.625"	#5/8	1.500"	----	8.99

TytonHellermann One piece molded of self extinguishing, fungus-inert 6/6 nylon. Meets all applicable military specification and are QPL listed. **MADE IN AMERICA**

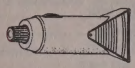
LIGHTER PLUG



Standard 12V auto cigarette lighter plug. Solder terminal hook-up.

75-206.....$ .49

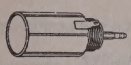
FUSED CIGARETTE LIGHTER PLUG



Mfg. - SAFCO "80"
Brass and metal construction, ABS plastic body. Includes 15 amp fuse. No soldering required.

75-170.....$ .95

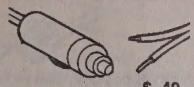
LIGHTER SOCKET



Standard 12V auto cigarette lighter socket. Quick connect for ground.

	(1-99)	(100-Up)
75-125.....	$1.50	$1.35

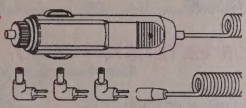
LIGHTER CORD



4ft in length, 20 gauge

75-163.....$ .49

UNIVERSAL FUSED LIGHTER CORD

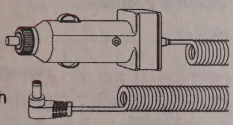


Mfg. - AMERICAN INT'L, #PC-400CL
5ft (extended) coiled cord with fused lighter plug and 3 polarity reversible plugs: 1.3mm OD. .138" - ID. .50", 2.1mm OD. .216" - ID. .80" and 2.5mm OD. .215" - ID. .98"

New

60-412.....$2.95

RADAR DETECTOR POWER CORDS



4ft coiled cord with fused lighter plug.

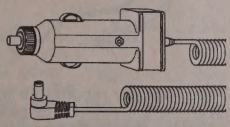
1.3mm right angle plug
60-180.....$1.75

2.1mm right angle plug
60-181.....$1.99

2.5mm straight, reversible polarity plug
60-182.....$2.25

2.5mm right angle, reversible polarity plug
60-183.....$1.99

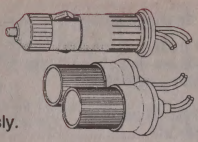
COILED LIGHTER CORD



4ft coiled cord with lighter plug.
Right angle coaxial plug:
OD - .193"(4.9mm) x ID - .079"(1.93mm)

75-173.....$ .99

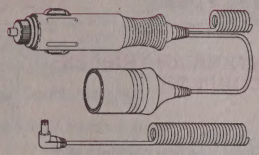
CIGARETTE LIGHTER "Y"



9" overall length. Allows use of two 12 VDC devices simultaneously.

LP5.....$3.50

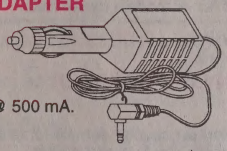
HEAVY DUTY "Y" LIGHTER CORD



Plugs directly into any cigarette lighter socket or 12 VDC power supply. One output: 6ft extended curled cord with right angle coaxial jack: OD - .215", ID - .098"; (Center positive for polarity); Second output 3" straight lead with a lighter socket. Allows use of two 12 VDC device simultaneously. Fused at 3 amp.

75-242.....$5.95

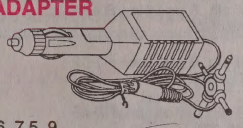
DC AUTO ADAPTER



Input: 12 VDC
Output: 3 VDC @ 500 mA.

75-182.....$ .99

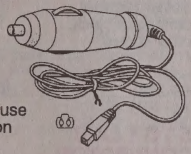
DC AUTO ADAPTER



Input: 12 VDC
Output: 3, 4.5, 6, 7.5, 9, 12 VDC @ 800 mA
6ft cable with T connector and polarity reversing plug.

75-244.....$3.95

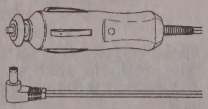
FUSED LIGHTER CORD



6ft 22 AWG cord
Includes 2 amp GMA fuse
Terminates in 2 position molded socket.

75-199.....$ .75

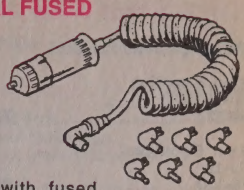
FUSED LIGHTER CORD



Mfg. - KENWOOD
Mfg.# - W01-0870
4'-10" cord with right angle coaxial plug.
OD - 5m, inside pin. Original Kenwood replacement.

75-249.....$ .75

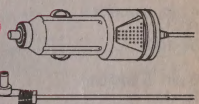
UNIVERSAL FUSED LIGHTER CORD



12ft (extended) coiled cord with fused lighter plug and 6 polarity reversible plugs: 3.5mm, 3.5mm x 1.2mm, 5mm x 2mm, 5mm x 2.5mm, 5.5mm x 1.5mm, 5.5mm x 2mm

60-304.....$3.25

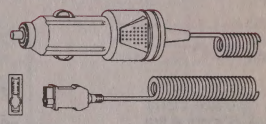
9.3 VDC BATTERY ELIMINATOR LIGHTER CORD



Mfg. - CELL STAR
(For AT&T)
Exact replacement cord for AT&T cell phone #3620 to power talk and charge. A micro size switching power supply and variable rate battery charger is integrated into the cigarette lighter plug which gives you a constant 9.3 VDC output. Features LED indicator. Center is positive for polarity. The enclosure and 6ft cord are black. Right angle coaxial jack: OD - .136", ID - .05"

60-368.....$1.75

JRC BATTERY ELIMINATOR LIGHTER CORD

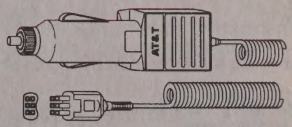


Mfg. - JRC, #850PP
Power plus for JRC PTR-850. Attaches to the phone with a standard battery. Powers the phone and fast charges the battery to 50% capacity in 1 hour, 100% recharging in 3 to 5 hours.

75-239.....$2.49

DUAL OUTPUT FUSED VEHICLE POWER ADAPTER/BATTERY CHARGER/ELIMINATOR

AT&T®



Mfg. - AT&T
Mfg.# - 406967
Input: 13.7 VDC 2 amp
Output: 13.7 VDC 1.5 amp
15 VDC 140mA
Fused at 3 amp, this high quality coiled cord extends 6ft to a 6 pin female polarized Molex connector. Features a green LED power indicator and molded strain relief at both ends.

75-154.....$3.95

FLUSH MOUNT JACK

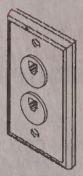
Mounting screws included.

4 pin, 6 position
RJ-11
56-322.....**$ .75**

6 pin, 6 position
RJ-12
56-110.....**$ .99**

8 pin, 8 position
RJ-45
56-324.....**$1.75**

DUAL FLUSH MOUNT JACK



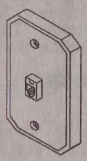
Mounting screws included.

4 pin, 6 position
RJ-11
56-100.....**$1.45**

6 pin, 6 position
RJ-12
56-101.....**$1.65**

8 pin, 8 position
RJ-45
56-378.....**$1.75**

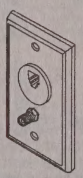
WALL PHONE MOUNT



Mounting screws included

4 pin, 6 position
RJ-11 *(1-24) (25-Up)*
56-323.....**$1.95**.....**$1.79**

CATV/TELEPHONE WALL PLATE



RJ-11 type telephone
F-81 CATV connector

4 pin, 6 position
56-325.....**$1.49**

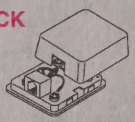
SURFACE MOUNT JACK

Spade lug terminal hook-up
Includes mounting hardware

4 pin, 6 position
RJ-11
56-326.....**$1.19**

6 pin, 6 position
RJ-12
56-360.....**$1.59**

SURFACE MOUNT JACK



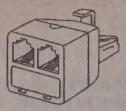
Includes jack cover, mounting block and hardware

4 pin, 6 position
RJ-11
56-327.....**$1.49**

6 pin, 6 position
RJ-12
56-329.....**$1.75**

8 pin, 8 position
RJ-45
56-381.....**$1.99**

MODULAR DUPLEX "T" ADAPTER



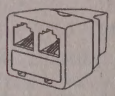
1 male to 2 females
Allows use of two items from one outlet.

4 pin, 6 position
56-331.....**$ .75**

6 pin, 6 position
56-332.....**$ .99**

8 pin, 8 position
56-380.....**$1.75**

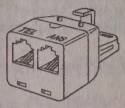
MODULAR TRIPLEX COUPLER



3 females
Splits one line cord into two.

56-333.....**$ .99**

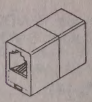
PHONE/FAX PRIORITY SWITCH



Mfg. - Leviton
Transfers phone line priority to stop answering machine message or to prevent interruption of fax or modem transmission.

56-595.....**$3.99**

IN-LINE COUPLER



Modular coupler, female-female
Allows you to plug modular cords together for longer extension.

4 pin, 6 position; RJ-11
56-343.....**$ .49**

6 pin, 6 position; RJ-12
56-344.....**$ .75**

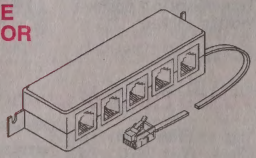
8 pin, 8 position; RJ-45
56-379.....**$ .99**

MODULAR WIRING BLOCK

Screw terminal connector block, color coded.

56-328.....**$2.99**

5 TO 1 LINE CONNECTOR



Allows connection of up to five different single line products such as dialers, modems, answering machines, etc. to one telephone jack.

4 pin, 6 position
56-330.....**$3.99**

MODULAR PHONE CORDS

4 pin, 6 position, male to male

		(1-99)	*(100-Up)*
56-334	7'	**$ .50**	**$ .39**
56-335	14'	**$ .99**	**$ .75**
56-336	25'	**$1.49**	**$ .99**

MODULAR PHONE CORDS

4 pin, 6 position, male to spade lug

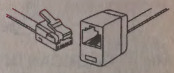
		(1-99)	*(100-Up)*
56-337	7'	**$ .99**	**$ .59**
56-338	14'	**$1.25**	**$ .75**
56-339	25'	**$1.49**	**$ .85**

MODULAR PHONE CORDS

6 pin, 6 position, male to male

		(1-99)	*(100-Up)*
56-152	7'	**$1.09**	**$ .69**
56-340	25'	**$1.49**	**$ .99**

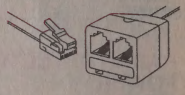
25' EXTENSION CORD



4 pin, 6 position,
male to female

56-341.....**$1.49**

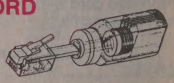
25' EXTENSION CORD WITH DUPLEX JACK



4 pin, 6 position,
1 male to 2 female

56-342.....**$1.99**

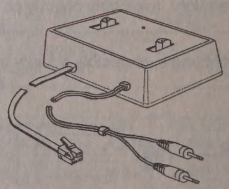
DETANGLER ADAPTER FOR HANDSET CORD



4 pin, 4 position
Prevents tangling of handset cord.

56-196.....**$2.49**

TELEPHONE RECORDING DEVICE

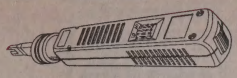


Automatically records all telephone calls as soon as the receiver is picked up and stops when the receiver is hung up. Includes manual override (off) switch. Hook-up instructions included.

56-345.....**$10.49**

PUNCH DOWN TOOL

Weidmüller Paladin Tools



Terminates and cuts wire on 66 or 110 type terminals. Features reversable clip-in blade, spare blade storage in handle and adjustable spring loaded impact mechanism.

TOOL WITH BLADE

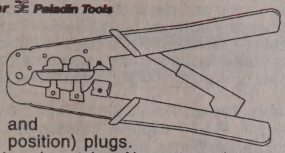
54-3527.....66.....**$43.95**
54-3528.....110.....**$43.95**

REPLACEMENT BLADES

54-4527.....66 blade.....**$12.29**
54-4528.....110 blade.....**$12.29**

ALL-IN-ONE TELEPHONE TOOL

Weidmüller Paladin Tools

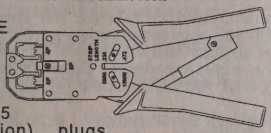


Crimps WE type RJ11 (2, 4 & 6 position) and RJ-45 (8 position) plugs. Stewart stamping style. Also cuts and strips telephone wire. Full ratcheting cycle with built-in safety release. One year mfg. warranty.

54-1545.....**$36.95**

DELUXE ALL-IN-ONE TELEPHONE TOOL

Weidmüller Paladin Tools

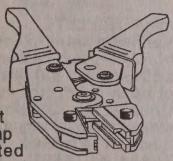


Crimps WE type handset, RJ11 (2, 4 & 6 position) and RJ-45 (8 position) plugs. Stewart stamping style. Also cuts and strips telephone wire. Full ratcheting cycle with built-in safety release. Five year mfg. warranty.

54-1530R.....**$109.95**

RJ45 CRIMPER

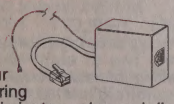
Weidmüller Paladin Tools



Crimps RJ45. 8 position modular plugs. Features full ratching cycle, manual ratchet release, adjustable crimp tension and heat-treated harden steel interchangeable dies for long life. Five year mfg. warranty.

54-1307.....Tool with die.....**$42.95**
54-2061.....Replacement die.....**$18.85**

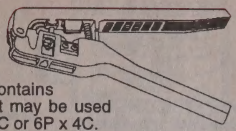
TELEPHONE - DATA LINE SURGE SUPPRESSOR



Mfg. - ELECTRA GUARD®
Mfg.# - EG111-2
Full protection for your fax, modem and answering machine equipment. Eliminates noise and disturbances. Transient suppression voltage - 180 volts. 80 joules. <3ns response. RFI/EMI protection. 5 year mfg. warranty.

56-568.....**$ 1.95**

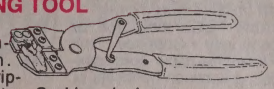
MODULAR CRIMPING TOOL



Plastic tool. Pre-strips and crimps modular telephone connectors. Contains an adapter so it may be used as either 4P x 4C or 6P x 4C.

56-416.....**$4.99**

HEAVY DUTY MODULAR CRIMPING TOOL



Steel construction. Built-in stripper and cutter. Cushioned grip.

For 4P x 4C modular handset plugs
56-256.....**$12.99**

For 6P x 4C or 6P x 6C modular plugs
56-257.....RJ-11 or RJ-12.....**$13.99**

For 8P x 8C modular plugs
56-258.....RJ-45.....**$14.99**

MODULAR HANDSET PLUG

4 contacts - 4P x 4C
MP-TH.....1 pk of 10/**$1.75**

MODULAR LINE PLUGS

4 pin - 6 position, RJ-11
56-104.....1 pk of 10/**$1.75**

6 pin - 6 position, RJ-12
56-106.....1 pk of 10/**$2.00**

8 pin - 8 position, RJ-45
56-108.....1 pk of 10/**$4.95**

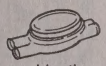
*Buy **10 pks** of one number and take a **10%** discount*

UL LISTED MODULAR CRIMP PLUGS

50 micron gold plating. For flat cable.

56-449.....4 contact, 6 position.....**$ .20**
56-450.....6 contact, 6 position.....**$ .25**
56-451.....8 contact, 8 position.....**$ .35**

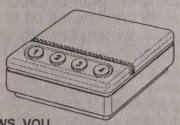
UP3 CONNECTOR



Mfg. - SCOTCHLOK
Is for 2 or 3 wire solid conductor combinations of 0, 9-0, 4mm (19-26 AWG) having max insulation OD - 1.67mm (.66").

	(1-99)	*(100-Up)*
UP3.....	**$ .10**	**$ .09**

AUTO DIALER



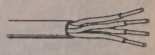
Mfg. - AT&T
Mfg.# - 1800A3A
4-1/4" x 4-1/8" x 1-3/4"
This four button (color coded) auto dialer allows you to program your most used, or emergency (Police, Fire, EMS) for simple selection. Great idea for kids or the elderly. Just take the phone off the hook and press your button. Easy to program. Powered 9V battery included.

56-604.....**$4.95**

TELEPHONE/STATION WIRE

Used for telephone, alarm, intercom or control applications.

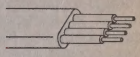
4 CONDUCTOR ROUND



22 gauge 4 conductor solid wire. Standard hook-up. Colors black, red, green and yellow.

Part#	*Length*	*Price*
56-263	50ft	**$3.75**
56-264	100ft	**$5.50**
56-406	500ft	**$23.95**
56-266	1000ft	**$42.50**

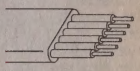
4 CONDUCTOR FLAT



28 gauge 4 conductor color coded stranded wire.

Part#	*Length*	*Price*
56-267	100ft	**$5.00**
56-268	500ft	**$22.50**
56-269	1000ft	**$39.95**

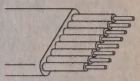
6 CONDUCTOR FLAT



28 gauge 6 conductor color coded stranded wire.

Part#	*Length*	*Price*
56-270	100ft	**$7.50**
56-271	500ft	**$29.95**
56-272	1000ft	**$59.95**

8 CONDUCTOR FLAT



28 gauge 8 conductor color coded stranded wire.

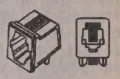
Part#	*Length*	*Price*
56-273	100ft	**$10.00**
56-274	500ft	**$45.00**
56-275	1000ft	**$95.00**

LINE CORD JACK

4 pin, 6 position
For use in the phone base for telephone line cord.

56-414.....**$ .45**

LINE CORD JACK



8 pin, 8 position
PC mount

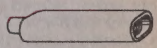
618.....**$ .59**

3-WIRE SPLICER

Mfg. - AMP, #5-553984-1
3 wire "Tel-Splice Connector".
Quick, easy splice for two or three wires 19 thru 26 AWG. This rugged connector has an aluminum splice bar and is anti corrosive gel filled.

	(1-99)	*(100-Up)*	*(1k-Up)*
74-348.....	**$ .10**	**$ .09**	**$ .06**

"B" TYPE (BEAN) SPLICE



Standard type "B" crimp splices. For phone or alarm wires, accepts three strands of 22 or 24 gauge wire. Uses insulation displacement technology so wires do not need to be stripped before crimping.

74-422.....100/**$9.00**

PROGRESSIVE ELECTRONICS TONE TEST KIT

Save time when identifying a single conductor or locating cable pairs, for installing or trouble shooting telephone data, audio/visual, security/alarm, heating/air and electrical systems. The tone generator, continuity and voltage tester is equipped with a modular connector for standard phone jacks. Functions include sending tone, verifying lines, indicating line conditions, identifying tip and ring. Providing "talk" battery and testing continuity. Designed to work with any tone generator, the inductive amplifier will identify and trace wire within a group without damaging the insulation. Features include a volume control with increased sensitivity, recessed terminal ports for hand-set connection and a recessed on/off button to prevent battery drain. The handy carrying case made of tough cordura lets you take this kit anywhere.

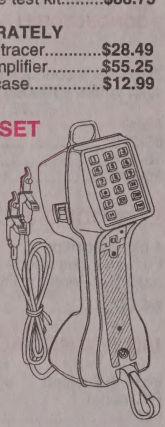
Kit Contains: Tone generator, inductive amplifier and carrying case.

56-558.....Complete tone test kit.....**$88.75**

SOLD SEPARATELY

56-559.....High power tracer.....**$28.49**
56-560.....Inductive amplifier.....**$55.25**
14-440.....Carrying case.....**$12.99**

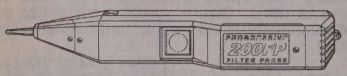
TELEPHONE TEST SET



Mfg. - PROGRESSIVE
9-1/2" X 3" X 2-1/2", 1 lb
Designed for two-way communication and testing line condition. Can dial in tone & pulse modes, presents a high impedance monitor and contains LED polarity indication and built-in ringer. 10 number redial. Water-resistant high impact polypropylene design. One year Mfg. warranty.

56-443.....**$194.95**

INDUCTIVE AMPLIFIER FILTER PROBE



Mfg. - PROGRESSIVE
Mfg.# - 200FP
Filter probe blocks A/C interference by filtering out power related noise to sucessfully stop "power line hum".
- Adjustable sensitivity & volume control
- Recessed terminals for connection to telephone test sets or headsets
- Requires on 9V battery - 50 hrs nominal use
- 26 dB gain - 100 ohm input impedance

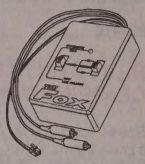
200FP.....**$99.95**

FOX, HOUND & HOUND 2 WIRE TRACING SETS

Mfg. - TRIPLETT
One year mfg warranty.

Locates wire with ease

Fox (Tone Generator)
1-1/2" x 3-1/2" x 1"
Generates 3 distinct tones for tracing virtually any type of *un-energized* wire or cable • LED indicator for continuity • Supplies "Talk Power" to allow communicating between handsets or powering a telephone.



Hound & Hound 2 (Inductive Tracer)
High impedance / gain amplifier • Can be used with either the FOX or LAN FOX • Capable of identifying the Fox's tone up to 12" away from testing wire through drywall, wood and many other nonmetal surfaces • Streamlined case and adjustable volume (Hound 2).

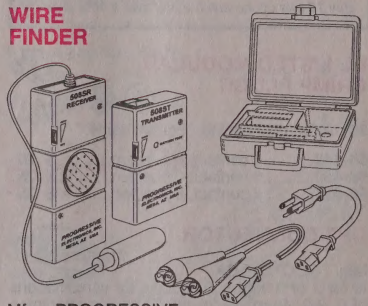
Hound
2-1/2" x 3-1/2" x 1"
29-119.....Fox & Hound.....**$65.95**

Hound 2
Streamlined case
and adjustable volume.
29-120.....Fox & Hound 2.....**$65.95**

LAN Fox (Tone Generator)
Generates two distinct tones usable for LAN cable tracing. Direct connection of standard RJ-45 modular plugs. Includes RJ-45 to BNC adapter allowing for tracing of BNC cables.

29-121.....**$28.95**

WIRE FINDER

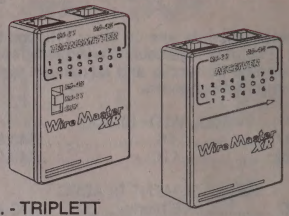


Mfg. - PROGRESSIVE
Whether your work involves locating buried cable or in-wall pre-wiring, the Model 508S is a must have. The 508S gives you the ability to trace the path of direct buried cables at depths of 3ft and lengths up to 1000ft. Its battery powered transmitter and receiver make this unit completely portable. The fully adjustable signal output and receiver gain improve locating accuracy. With an A/C plug adapter, tracing the path of energized or de-energized 120 VAC circuits in walls and ceilings are made easy.

Power requirements: One 9V each (transmitter and receiver)
Transmitter frequency: 447.5 KHz
Transmitter power: 9V p-p (11mW)
Voltage protection: 240 VAC, 500 VDC

508S.....**$207.95**

WIREMASTER XR RJ45 AND RJ11 LAN CABLE TEST SET WITH TRACER TONE



Mfg. - TRIPLETT
1" x 2-3/8" x 3-5/8"
Verifies point-to-point wiring of twisted pair LAN cables • Checks for continuity in straight-through or reverse wiring • Eight LEDs identify the source and destination of each conductor • Direct connection of 8-pin RJ-45 or 6-pin RJ-11 cables • Generates two distinct tones usable for cable tracing • Allows remote testing of cable runs up to 1000ft • Telco protected.

Cable Types: RJ-45 8-pin, RJ-11 6-pin conductor, RJ-11 6-pin 4 conductor, straight through or reverse wiring.

Output tone: Approx 5V peak to peak square wave.

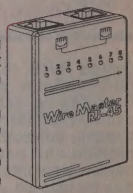
User Selectable Features: RJ-11 four conductor or six conductor • Forward or reverse sequencing on transmitter • High or low pitch tracer tone • Fast or slow LED sequencing.

Input/Output Protection: Will withstand 56V with 400 ohm series resistance applied across the outputs • Will withstand 175V peak with 100 ohm series impedance • Superimposed onto 56 VDC for 100 mS (standard Telco signals).

Requires 9 volt battery. Includes carrying case. One year mfg. warranty.

3254.....**$98.99**

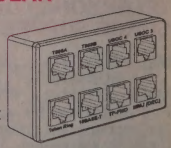
WIREMASTER RJ45 CABLE TESTER



Mfg. - TRIPLETT
Verifies point-to-point wiring of RJ-45 patch cables. Eight LEDs identify the destination of each conductor in cable. Checks for continuity in straight-through wiring. Cable types: AT&T 258A, EIA/TIA T568A or T568B, TP-PMD and any RJ-45 cable. One year mfg. warranty.

29-116.....**$34.95**

LAN CABLE MODULAR ADAPTOR BOX



Mfg. - TRIPLETT
Allows coupling between any two of eight LAN wiring formats. Compact handheld instrument. Cable types: EIA-TIA T568A or T568B, AT&T, USOC 4 pair, USOC 3 pair, Token-ring, 10-baset, TP-PMD and MMJ(DEC). One year mfg. warranty.

3242.....**$34.95**

COMBINATION TELCOM TERMINATION KIT

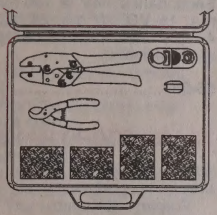
IDEAL

Mfg. - IDEAL
- RJ45/11 combination TelCom crimp tool model #30-496 for keyed or non-keyed RJ-45 plugs with built-in cut and strip blades
- 15 each four position RJ-11 modular plugs
- 15 each six position RJ-11 modular plugs
- 15 each eight position RJ-45 modular plugs

54-227.....**$56.95**

CRIMPMASTER 10-BASE-T RJ-45 CRIMPING KIT

IDEAL

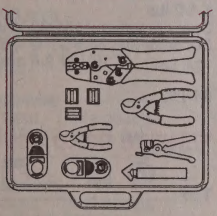


Mfg. - IDEAL
- TelCom crimp frame model #30-607
- RJ-45 keyed and non-keyed die set model #30-583
- Round coax cable cutter model #35-051
- IDEAL Cyclops twisted pair cable stripper model #45-514
- 200 each RJ-45 eight position round solid modular plugs
- All tools are stored in a molded case with foam cut-out interior.

54-224.....**$169.95**

UNIVERSAL LAN INSTALLATION KIT FOR COAXIAL CABLE SYSTEMS

IDEAL



Mfg. - IDEAL
This new LAN termination kit is designed to help LAN installers, reworkers, MIS departments and designers cut, strip and terminate virtually any style of LAN system with any type of coax cables.

Includes:
- Coax stripper #45-520
- Ethernet thickwire toggle stripper #45-516
- DEK thinet toggle RG-58 stripper #45-515
- Coax cable cutter #35-051
- Coax center conductor trimmer #35-060
- Round cable slitter #45-144
- AMP thinnet RG-58 round coax die set #30-588, RG-58 and RG-59/62 coax die set #30-581, RG-8/11 thickwire Ethernet die set #30-577 and RG-58/RG-59 Plenum die set #30-591
- All tools are stored in a molded case with foam cut-out interior.

54-223.....**$275.95**

ECONOMY 10-BASE T-KIT

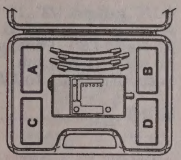
IDEAL

- RJ-11/45 IDEAL Telemaster™ TelCom crimper model #30-496
- IDEAL Cyclops® twisted pair cable stripper model #45-514
- 50 pcs RJ45 eight position modular plugs in a blow molded case with foam cut-out interior.

54-221.....**$84.95**

PATHFINDER TESTER KIT

IDEAL



Mfg. - IDEAL
Everything an installer needs to locate, identify and to test twisted pair and coaxial cable runs.

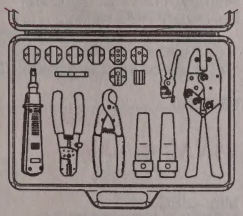
- Helps you hook up your phone system or LAN in no time
- Tests all wiring configurations, cable and connection status and indicates common faults
- Identifies specific cable termination locations with remote modules

Includes:
- *PathFinder testerand four remote modules*

54-225.....**$239.95**

TWISTED PAIR / COAX TERMINATION KIT

IDEAL



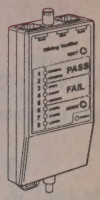
Mfg. - IDEAL
Provides all the tools needed to cut, strip, crimp and terminate a variety of coaxial cables and twisted pair applications.

Includes:
- Punch down tool with 66 blade, 110 blade
- Crimpmaster frame
- Die sets: RJ-11, RJ-11 DEC, RJ-45, RJ-45 AMP, N-Series, RG-58, RG-59 and RG62 BNC
- Round thinwire die set
- Round cable cutter
- Line cord stripper
- UTP stripper
- Two coax strippers
- Replacement cassette

54-226.....**$349.95**

WIRING VERIFIER PATCH CABLE TESTER

IDEAL



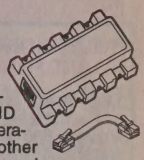
Mfg. - IDEAL
Provides fast and reliable testing of continuity and wiring schemes for paired cables terminated with modular plugs as well as verifying conductor for coaxial cables. 2, 3 and 4 pair cable may be flat or round with twisted inner pairs. Indication of opens, shorts miswires, reversals and crossed pairs is provided by the tester when applied to modular plug cable assemblies. Special wiring configurations are accommodated by the Wiring Verifiers unique LEARN mode. Dependable, long life solid state circuitry features a memory chip to allow testing of cable assemblies without prior identification of wiring schemes. Test results are indicated by visible and optional audible tone output.

62-050.....**$94.95**

Modular Testers, 'IDEAL' for testing power, polarity and verifying line numbers

DATA8™ MODULAR TEST ADAPTER

IDEAL



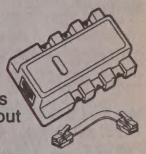
Test T568A, T568B, 10Base-T, Token Ring and TP-PMD systems. Use with tone generators, built-in test sets and other test devices to provide access to data lines without service interruption. Features EIA/TIA Category 5 jacks and a unique internal circuit design to reduce attenuation, coupling and "jitter" when testing data lines.

Features
- Straight wired modular unit is specifically designed for data applications
- Two 8-position, 8-wire Category 5 jacks allow in-line testing
- T568A and T568B color chart eliminates guess work
- Test pads arranged longitudinally. Test clips will not short each other out.

62-098.....**$26.95**

SMART6™ MODULAR TESTER

IDEAL

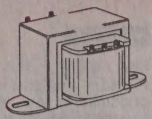


Allows access to circuit as modular test adapter without disrupting service.

Features
- Test button enables testing of pair one or two (pins 3+4 and/or 2+5) for power
- Four bright LEDs provide visual indication of power, polarity and AC voltage conditions
- Ring detection teats phone condition
- Telco wired (reverse wired) modular unit is specifically designed for voice circuit applications
- WALL direction identification eliminates guess work
- Two 6-position, 6-wire receptacles allow in-line testing
- Test pads arranged longitudinally. Test clips will not short each other out.

62-096.....**$29.95**

POWER TRANSFORMERS



PRIMARY
115 VAC, 50/60 Hz

SECONDARY/SIZE

12 VCT, 1 amp (6-0-6)

56-191.....2-1/2" x 1-3/8" x 1-1/2".....$3.95

12 VCT, 3 amp (6-0-6)

56-192.....2-1/2" x 1-3/4" x 2".....$6.49

12 VCT, 5 amp (6-0-6)

56-193.....2-1/2" x 2" x 2".....$9.49

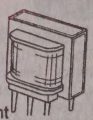
24 VCT, 3 amp (12-0-12)

56-194.....2-1/2" x 2-1/2" x 2-3/8".....$10.95

24 VCT, 5 amp (12-0-12)

56-195.....3" x 2-1/2" x 2-1/2".....$13.95

TELEPHONE COUPLING TRANSFORMERS



Mfg. - PREM, #4518
3/4" x 1/2" x 5/8"
Primary: 600 ohm
Secondary: 600 ohm CT
1 dB insertion loss, PC mount

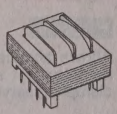
56-297.....$1.25

6.3 VAC @ 2 AMP
10 VAC @ 1 AMP

Mfg. - SCHUMACHER
2-3/8" x 2" x 2"
2-7/8" mounting holes on center
Primary: 115 VAC, 60 Hz
Dual Secondary: 6.3 VAC @ 2 amp
10 VAC @ 1 amp

56-432.....$2.99

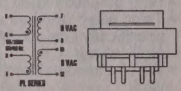
23 VAC @ 95 mA
2.4 VAC @ 80 mA



Mfg.# - LS-9020-PT4
1-5/8" x 1-3/8" x 1-3/8"
Primary: 120 VAC, 60 Hz
Secondaries: 23 VAC @ 95 mA
2.4 VAC @ 80 mA

56-657.....$1.99

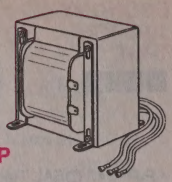
16 VCT TRANSFORMER



Mfg. - MICROTRAN
Mfg.# - PL10-16
Input: 115/230 VAC , 50/60 Hz
Secondary: Parallel 8 VAC @ 1.25 amp
Series 16 VCT @ .62 amp

56-603.....$3.49

HIGH CURRENT TRANSFORMERS



13.8 VAC @ 25 AMP

4" x 3-1/2' x 4", 8-1/2 lb
Actual load test 12.90 @ 25 amp. Primary 2 amp
No load 13.80. Primary 97mA
No weld construction
Copper shield over wiring

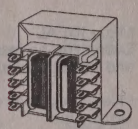
56-658.....$19.95

13 VAC @ 35 AMP

4-1/2" x 4" x 4-1/2", 12-1/2 lb
Actual load test 13.70 @ 35 amp. Primary 4 amp
No load 14.60. Primary 168mA
No weld construction
Secondary leads 10 AWG with ring terminals

56-659.....$24.95

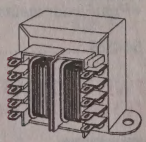
24 VCT @ 1 AMP
12 VDC @ 2 AMP



Mfg. - SIGNAL
Mfg.# - A41-25-24
2-1/4" x 1-7/8" x 2"
Primary: 115/230 VAC, 50/60 Hz
Secondaries: 24 VCT @ 1 Amp
12 VDC @ 2 Amp

56-654.....$4.95

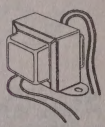
10 VCT @ 13 AMP
5 VAC @ 26 AMP



Mfg. - SIGNAL
Mfg.# - A41-130-10
2-13/16" x 2-7/8" x 3-3/8"
Primary: 115 VAC, 50/60 Hz
Secondary RMS rating:
Series: 10 VCT @ 13 amp
Parallel: 5V @ 26 amp
1/4" quick connect terminals. 130 vA

56-421.....$24.95

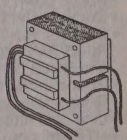
24 VAC @ 1 AMP



Mfg. - JEC
2-3/4" x 2-1/2" x 2-1/4"
3-1/4" mounting holes on center
Primary: 110 VAC, 60 Hz
Secondary: 24 VAC @ 1 amp

56-433.....$6.95

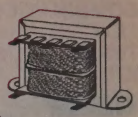
24 VAC 3 AMP (75vA) TRANSFORMER



Mfg. - BASLER
Mfg.# - BE122775RAA
3" x 2-1/2" x 2-3/4"
Primary: 120 VAC, 50/60 Hz
Secondary: 24 VAC 75vA (3 amp)

56-480.....$9.95

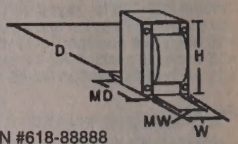
24 VCT @ 4 AMP



Mfg. - ENSIGN
Mfg.# - TP-8066
3-1/8" x 2-1/4" x 2-1/2"
Primary: 120 VAC
Secondary: 24 VCT @ 4 Amp

56-656.....$10.95

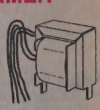
MULTI OUTPUT



H = 3-3/4"
W = 4-1/2"
D = 3-7/8"
WT = 7 lbs
Mfg. - DEL-TRAN #618-88888
Primary: 230/240 VAC, 50 Hz
Secondaries: 44V @ 100 mA, 3.98 VCT @ 300 mA, 15 VCT @ 1A, 24 VCT @ 4.8A (All but 44V @ 100 mA are center tapped). Spec sheet included.

56-283.....$3.95

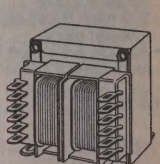
TRANSISTOR TRANSFORMER



5/8" x 5/8" x 1/2"
Matched impedance:
Primary: 20K ohm
Secondary: 1K ohm
Resistance: Primary: 1.32K ohm
Secondary: 90 ohm
4.47:1 turns ratio

56-474.....$1.49

36 VCT @ 4.8A TRANSFORMER



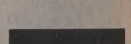
Mfg. - SIGNAL
Mfg.# - A41-175-36
3-7/8" x 3-1/4" x 3-1/4"
5-1/2 lbs
Dual primaries: 115/230 VAC
Secondaries: 36 VCT @ 4.8 amp
18V @ 9.6 amp

56-797.....$14.95

FERRITE BEAD ASSORTMENT

TBF.....pk 8/$1.00

FERRITE ROD



3/4" long x 5/32" dia.

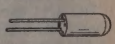
FR15.....$ .15

BALUN CORES

1/4" wide w/ 1/16" dia holes
18-132.....$ .25

1/2" wide w/ 5/32" dia holes
18-133.....$ .35

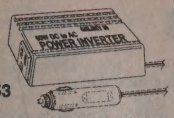
1 µH RADIAL CHOKE



6mm dia x 11.3 high
.1" lead space

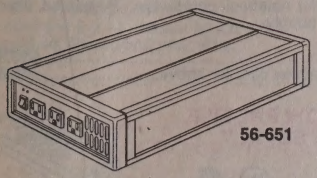
18-113.....$ .19

DC TO AC POWER INVERTER



Lightweight & Compact

56-653



56-651

nput: 10.5 - 14.5 VDC (2ft-8in Lighter cord)
Modified sine wave
Full protection:
Polarity protection: Battery polarity reverse, fuse will be broken.
High voltage protection: Input voltage over 15 volts the unit shuts down.
Low voltage protection: Input voltage under 10 volts the unit shuts down.
Overload and short circuit protection: Loading power over the rating power the unit shuts down.
Thermo protection: The unit overheats, the unit shuts down.
Has low voltage alarm (10.6 volts). Fused at 15 amp and has single AC receptacle.
Ideal to power or recharge your laptop computer in your car, RV or boat.

50 watt
One outlet
4-1/8" x 3" x 1-3/8", 1/2 lb
56-653.....$39.95

150 watt
Two outlets
6-5/8" x 4-1/2" x 1-13/16", 2 lbs
56-648.....$54.95

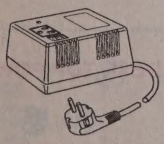
200 watt
One outlet
6-5/8" x 4-5/8" x 1-1/2", 2 lbs
56-649.....$64.95

500 watt
Alligator clips input - Three outlets
10-3/4" x 6-3/16" x 2-1/4", 5 lbs
56-650.....$134.95

600 watt
Alligator clips input - Three outlets
13-3/4" x 6-1/2" x 2-3/4", 8 lbs
56-651.....$164.95

1000 watt
Three outlets
14-1/2" x 9-1/2" x 3", 9-1/2 lbs
56-652.....$349.95

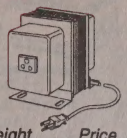
85 WATT 220-110 VAC CONVERTER



4-3/4" x 2-7/8" x 2-5/8"
Input: 220/240 VAC
Output: 110/120 VAC
Step-Down transformer with fuse and ground. For electrical products up to 85 watt (100vA). Features ON/OFF switch, LED indicator and 4ft input cord.

56-655.....$12.95

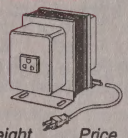
110 TO 220 VAC STEP-UP TRANSFORMER



This heavy duty grounded transformer converts 110 VAC to 220 VAC.

Part#	Max Wattage	Weight	Price
56-631	100 watts	3 lbs	$14.45
56-632	200 watts	4 lbs	$18.45
56-633	500 watts	7 lbs	$36.95
56-634	1000 watts	16 lbs	$62.95
56-635	1500 watts	20 lbs	$79.95
56-636	2000 watts	26 lbs	$99.95
56-637	3000 watts	31 lbs	$149.95

220 TO 110 VAC STEP- DOWN TRANSFORMER



This heavy duty grounded transformer converts 220 VAC to 110 VAC.

Part#	Max Wattage	Weight	Price
56-623	100 watts	3 lbs	$13.95
56-624	200 watts	4 lbs	$17.95
56-625	500 watts	7 lbs	$34.95
56-626	1000 watts	17 lbs	$59.95
56-627	1500 watts	20 lbs	$74.95
56-628	2000 watts	26 lbs	$98.95
56-629	3000 watts	32 lbs	$149.95

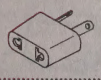
STEP-UP STEP-DOWN AUTOFORMER

Can Be Used Either Way
Convert 120 VAC to 220 VAC or 220 VAC to 120 VAC. Includes power cord with standard 110V and 220 VAC plugs.

Part#	Max Wattage	Price
67-3010	100 watts	$19.95
67-3020	200 watts	$26.45
67-3030	300 watts	$35.95
67-3050	500 watts	$48.45
67-3100	1000 watts	$64.95
67-3150	1500 watts	$79.95
67-3200	2000 watts	$99.95
67-3300	3000 watts	$157.95

FOREIGN TO DOMESTIC ADAPTERS

US to AUSTRALIA adapter plug

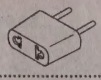


56-4622.....$ .75

US to UK adapter plug

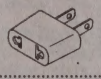
56-4623.....$1.49

EUROPEAN 4M to US flat pin adapter plug



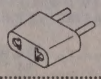
56-4624.....$ .75

US flat pin to EUROPEAN prong adapter plug



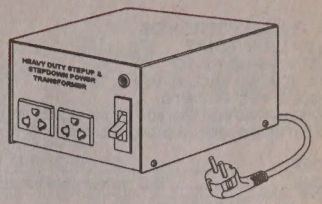
56-4626.....$ .75

EUROPEAN 5mm to US flat pin adapter plug



56-4628.....$ .75

STEP-UP STEP-DOWN VOLTAGE CONVERTERS



Step-up/step-down converter. Features on/off switch with indicator light and fuse protection. Deluxe metal console with professional black finish. Grounded VDE type plug for safety and reliability. Universal output receptacles for European 2 round pin, North American 2 flat pin and 3 prong plug.

100 watt
56-638...5-1/2" x 3-1/2" x 3-1/2", 4 lbs....$18.95

200 watt
56-639....5-1/2" x 3-3/4" x 3-1/2", 5 lbs...$24.95

500 watt
56-640.....6" x 5" x 4", 9 lbs.....$46.95

750 watt
56-641.....7" x 5" x 4", 12 lbs.....$55.95

1000 watt
56-642.....8-1/2" x 7-1/4" x 6", 22 lbs.....$69.95

1500 watt
56-643.....8-1/2" x 7-1/4" x 6", 25 lbs.....$89.95

2000 watt
56-644....10" x 7-1/4" x 6-1/2", 31 lbs...$119.95

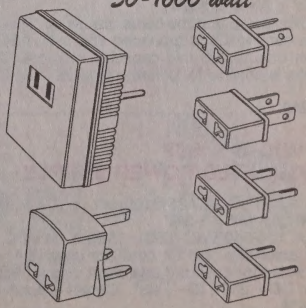
3000 watt
56-645....10" x 7-1/4" x 6-1/2", 35 lbs...$154.95

5000 watt
56-646.....14" x 10" x 9", 48 lbs.....$199.95

INTERNATIONAL VOLTAGE CONVERTER ADAPTER KIT

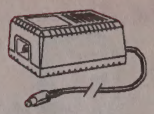
Converts 220/240V to 110/120V.
Suitable for heat producing appliances not exceeding 1600 watts (hair irons, coffee makers, etc.). Includes 1600 watt converter, 5 adapter plugs and drawstring carrying pouch. Works in the follow: Africa, Asia, Europe, Middle East, Australia, New Zealand, United Kingdom, Hong Kong, Caribbean and North & South America.

50-1600 watt



56-773.....$24.95

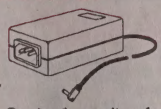
5 VDC @ 3 AMP REGULATED POWER SUPPLY



Mfg. - LZR ELECTRONICS
Mfg.# - LZUS1501AT
5-3/8" x 3-5/16" x 2-1/2"
Input: 100-250 VAC, 47-63 Hz, 15 watt
Output: 5 VDC @ 3 amp
Fully regulated and filtered. 6ft black 20 AWG/4 conductor cord with 4 pin mini din plug output. 3 prong IEC input. Switching power supply.

56-368.....**$19.95**
60-246.....IEC power cord for above.....**$2.59**

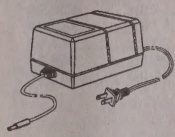
12 VDC @ 2 AMP REGULATED POWER SUPPLY



Mfg. - DELL, #24111
4-5/8" x 2-5/16" x 1-5/8"
Input: 100-250 VAC, 47/63 Hz, .6 amp
World Wide AC input with IEC 320 input receptacle.
Output: 12 VDC @ 2 amp (regulated)
Right angle coaxial jack: OD - .215", ID - .081". Center is positve for polarity. Originally intended for notebook computers. Regulated, filtered and fused. Switching power supply.

56-413.....**$19.95**
60-246.....IEC power cord for above.....**$2.59**

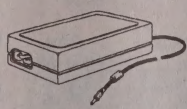
12 VDC @ 3.5 AMP POWER SUPPLY



Mfg.# - BIA0661235
4-1/2" x 3-1/8" x 2-1/2"
Input: 120 VAC, 60 Hz
Output: 12 VDC @ 3.5 amp
The enclosure and cords are black. The center is positive for polarity. Coaxial jack: OD - .215", ID - .08".

56-662.....**$24.95**

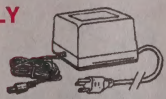
15 VDC @ 2.33 AMP REGULATED POWER SUPPLY



Mfg. - DIGITAL
Mfg.# - FR-PCP7H-AD
4-3/4" x 2-3/8" x 1-1/8"
Input: 100-240 VAC, 50/60 Hz
Output: 15 VDC @ 2.33 amp
The enclosure and the cord are steel gray. The center is positive for polarity. Coaxial plug: OD - .215", ID - .098". Fused, filtered and regulated. 117 VAC black cord is included.

56-527.....**$19.95**

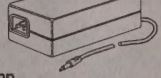
17.5 VDC @ 1.5 AMP POWER SUPPLY



Mfg. - APS
Input: 115 VAC 60 Hz
Output: 17 VDC @ 1.5 amp
3-1/4" x 2-1/4" x 2-3/4"
The enclosure and the cords are black. This filtered adapter has a 6ft 18/3 input cord which is grounded and a 6ft 18/2 SPT output cord. Contains either one 10,000 mfd capacitor or two 4,700 mfd capacitors for filtering. Center is positive for polarity. Coaxial plug: OD - .215", ID - .082".

56-262.....**$8.95**

24 VDC @ 1 AMP REGULATED POWER SUPPLY



Mfg. - ASTEC, #SA25-3109
4-5/8" x 2-1/4" x 1-3/8"
Input: 100-240 VAC (IEC). Output: 24 VDC @ 1 amp
The enclosure and 6ft cord are gray. 24 watt, level B EMI filter. Fully protected for overload and short circuit. Filtered and regulated. Coaxial jack: OD - .215", ID - .098". Center is positive for polarity.

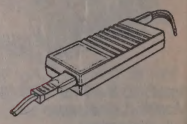
56-479.....**$12.95**
60-327.....6ft gray power cord for above.....**$1.75**

12 VDC @ 2 AMP REGULATED POWER SUPPLY

Mfg. - DELL
Mfg.# - APAC-1
5-1/2" x 3" x 1-3/4"
Input: 100-240 VAC, 50/60 Hz, .6 amp
World Wide AC input with IEC 320 input receptacle.
Output: 12 VDC @ 2 amp (regulated)
Right angle coaxial jack: OD - .215", ID - .081". Center is positve for polarity. Originally intended for notebook computers. Regulated, filtered and fused. Switching power supply.

56-412.....**$19.95**
60-246.....IEC power cord for above.....**$2.59**

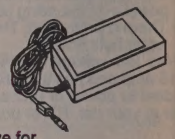
12 VDC @ 2.1 AMP LOW PROFILE REGULATED POWER SUPPLY



Mfg. - ITE
4-1/8" x 1-5/8" x 7/8", 4.6 oz
Input: 100-240 VAC, 50-60 Hz
Output: 12 VDC @ 2.1 amp, 25 watt continuous
The enclosure and 6ft input & 2ft output cords black. Coaxial jack: OD - .215", ID - .098". Center is positive for polarity. 2% line regulation. Regulated, filtered & fused. Compact and extremely lightweight. Ideal for notebook computers and other small systems.

56-770.....**$19.95**

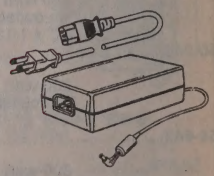
IBM® 15 VDC @ 1.3 AMP REGULATED POWER SUPPLY



Mfg. - PANASONIC (for IBM®), #48G8290
5-3/8" x 2-7/8" x 1-1/2"
Input: 100-240 VAC (IEC)
Output: 15 VDC @ 1.3 amp
Originally intended for IBM 9552. Center is positive for polarity. Coaxial jack: OD - .255", ID - .118". Fully regulated and filtered. IEC power cord included.

56-302.....**$14.95**

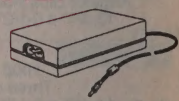
16 VDC @ 1.25 AMP ADAPTER



Mfg. - DIGITAL
Mfg.# - PCPIH-EA
2-1/4" x 2-3/4" x 1-3/4"
Input: 110 - 240 VAC
Output: 16 VDC @ 1.25 amp
The enclosure and 6ft cord are black.
The center is positive for polarity. Right angle coaxial jack: OD - .238", inside pin - 1.4mm.
Regulated, fused and filtered.

56-621.....Comes complete with IEC line cord.....**$19.95**

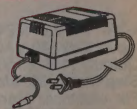
17.5 VDC 1.8 AMP SLIMLINE AC ADAPTER



Mfg. - COMPAQ, #2832A
4-1/2" x 2-1/4" x 1-1/8"
Input: 100-120/220-240 VAC
50/60 Hz, .6/.3 amp
Output: 17.5 VDC @ 1.8 amp, 20 watt
Coaxial jack: OD - .215", ID - .081". Center is positive for polarity. Originally intended for notebook computers. Regulated, filtered and fused. 115 VAC power cord included.

56-415.....**$19.95**

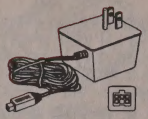
24 VDC @ 1.5 AMP DESK TOP POWER SUPPLY



Mfg. - STANCOR
Mfg.# - STA-6624
4-5/8" x 3" x 2-1/2"
Input: 120 VAC, 60 Hz, 54 watt
Output: 24 VDC @ 1.5 amp
The enclosure and 6ft cord are black.
The center is negative for polarity. Coaxial jack: OD - .215", ID - .083"

56-622.....**$24.95**

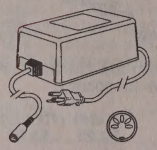
12 VDC @ 130 mA or 5 VDC @ 500 mA



Mfg.# - AULT
Mfg.# - 5712-305-413E99
3" x 2-3/4" x 1-7/8"
Input: 120 VAC, 60 Hz, .18A
Output: ±12 VDC 130 mA
+5 VDC 500 mA
6ft cord and 5 pin molded plug are black.
Regulated, filtered and grounded.

56-516.....**$3.95**

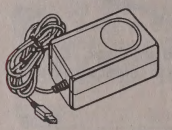
5 VDC @ 1 AMP ±12 VDC @ 250 mA REGULATED DESKTOP POWER SUPPLY

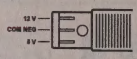


Mfg. - AULT (for US ROBOTICS)
Mfg.# - 7612-305-469E
4-3/4" x 2-3/8" x 2-5/8"
Input: 120 VAC, 60 Hz (Grounded)
Output: 5 VDC @ 1 amp
± 12 VDC @ 250 mA
The enclosure and the 6ft cords are black.
Output via a 5 pin din connector.
Filtered, fused and regulated switching power supply.

56-524.....**$7.95**

5 VDC @ 4 AMP 12 VDC @ 1 AMP SWITCHING POWER SUPPLY

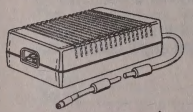




Mfg. - AULT
Mfg.# - SW305
5-3/4" x 3-3/8" x 2"
Input: 100-250 VAC (IEC)
50/60 Hz, .3 - .7 amp
Output: +5 VDC @ 4 amp
+12 VDC @ 1 amp
The enclosure and cord are black. The filtered adapter has a 6ft 18/3 output cord with a 3-pin overmolded connector.

56-545.....**$19.95**
60-246.....IEC power cord for above.....**$2.59**

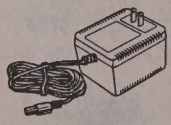
SWITCHING POWER SUPPLY



Mfg. - INT'L POWER SOURCES, #PUP55-32
7" x 3-3/4" x 2-1/8"
Input: 100-240 VAC, 50/60 Hz
World wide AC input IEC 320 input receptacle.
Output: + 5 VDC @ 5 amp
- 15 VDC @ .5 amp
+ 15 VDC @ 2.5 amp
The enclosure and 6ft output cord are black.
Output via 180° male din. Built-in EMI filter.
Overvoltage and overcurrent protection. Input surge current protection.

56-772.....**$19.95**
60-246.....IEC power cord for above.....**$2.59**

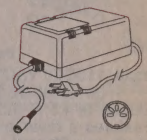
MULTI OUTPUTADAPTER



Mfg. - COLECO
Mfg.# - 55416
4-3/4" x 3" x 2-1/4", 2 lbs
Input: 120 VAC, 60 Hz, .25A
Output: +5 VDC @ 900 mA
- 5 VDC @ 100 mA
+12 VDC @ 300 mA
Ground
5-1/2ft cord and molded plug, black. Originally designed as a power supply for Colecovision video game system.

56-370.....**$3.95**

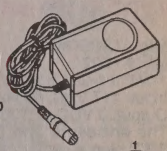
+5 VDC @ 750 mA ±12 VDC @ 360 mA REGULATED POWER SUPPLY

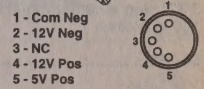


Mfg. - US ROBOTICS
Mfg.# - T512750/27
4-3/4" x 3" x 2-5/16"
Input: 120 VAC, 60 Hz, 30 watt
Output: +5 VDC @ 750 mA
±12 VDC @ 360 mA
The enclosure and the cords are black.
The input cord is 6ft black and grounded.
Output via 6ft black cord with 5 pin female din.

56-529.....**$5.95**

5 VDC @ 2 AMP 12 VDC @ 800 mA SWITCHING POWER SUPPLY

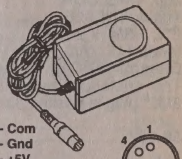


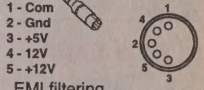


Mfg. - AULT, #SW305
3-1/4" x 1-7/8" x 5-1/8"
Input: 100-250 VAC (IEC), 50/60 Hz, .25-.6 amp
Output: +5 VDC @ 2 amp
+12 VDC @ 800 mA
- 12 VDC @ 400 mA
The enclosure and cord are black.
This filtered adapter has a 6ft 18/3 output cord with a 3-pin overmolded connector.

56-440.....**$9.95**
60-246.....IEC power cord for above.....**$2.59**

SWITCHING POWER SUPPLY

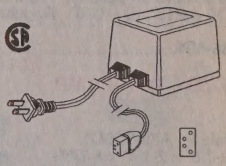




Mfg. - AULT, #SW300
5-3/4" x 3-3/8" x 2"
Input: 100-250 VAC, 50/60 Hz, world wide AC input IEC 320 input receptacle.
Output: +5 VDC @ 4 amp
+12 VDC @ 1 amp
- 12 VDC @ .6 amp
The enclosure and 6ft output cord are black.
Output via 180° male din. Overcurrent and short circuit protected. 5V overvoltage crowbar. EMI filtering.

56-567.....**$19.95**
60-246.....IEC power cord for above.....**$2.59**

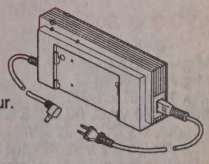
18 VAC @ 1.2 AMP (22vA) 7.5 VAC @ 130 mA (1vA)



Mfg. - TEXAS INSTRUMENTS
Mfg.# - AC9500
3" x 2-5/8" x 2-1/8"
Input: 120 VAC, 60 Hz, .3 amp
Output: 18 VAC @ 1.2 amp (22vA)
7.5 VAC @ 130 mA (1vA)
The enclosure and 6ft cords are black.
Output via 4 pin molded plug.

56-536.....**$2.49**

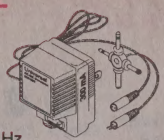
HEWLETT PACKARD RAPID RECHARGER FOR HP DESKJET PORTABLE PRINTERS



Mfg. - HEWLETT PACKARD
6-1/8" x 2-3/4" x 1-5/8"
Input: 100-240 VAC, 50/60 Hz
Output: 11 VDC @ 1.8 amp (printing)
8 VDC @ 1.3 amp (charging)
Holds 2 batteries. Recharges batteries in 1 hour.
Use in place of standard power adapter.
Battery compatibility:
HP part#'s C3003A, C3058A, C3059A
PANASONIC part#'s PV-BP15, VW-VBS1, VW-VBS1E

56-483.....**$19.95**

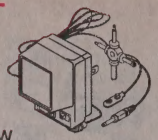
300 mA UNIVERSAL ADAPTER



Input: 110/220 VAC (switchable), 50/60 Hz
Output: 3, 4.5, 6, 7.5 and 9 VDC @ 300 mA
Features a reverse polarity plug and universal plugs on a 6ft cord.

56-431.....$2.95

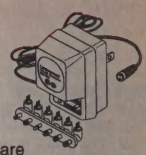
500 mA UNIVERSAL ADAPTER



3" x 2" x 2"
Input: 117 VAC, 60 Hz, 8 W
Output: 3, 4-1/2, 6, 7-1/2, 9, 12 VDC @ 500 mA. Features a reverse polarity switch with 3.5mm, 2.1mm, and 2.5mm DC power plugs.

56-200.....$5.95

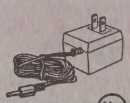
500 mA UNIVERSAL ADAPTER



3" x 2" x 2-1/8"
Input: 120 VAC, 60 Hz, 12 watt
Output: 3, 4.5, 6, 7.5, 9, and 12 VDC @ 500 mA
The enclosure and 6ft cord are black. LED indicator lamp. Features a reverse polarity plug and 6 interchangeable tips: 3.5mm x 1.3mm, 3.5mm, 5mm x 2.1mm, 5.5mm x 1.5mm, 5.5mm x 2.5mm, 5.5mm x 2mm

56-441.....$5.95

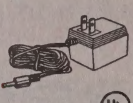
3 VDC @ 100 mA



Mfg. - UNISONIC
Mfg.# - 622
1-3/4" x 1-3/8" x 2-1/8"
Input: 117 VAC, 60 Hz, 3 watt
Output: 3 VDC @ 100 mA
The enclosure and 6ft cord are black. The 3/32" plug is center negative for polarity.
100 to a case.

56-362.....$1.49

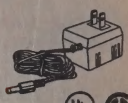
3 VDC @ 200 mA



Mfg. - UNISONIC
Mfg.# - 650
1-5/8" x 1-3/8" x 2"
Input: 117 VAC, 60 Hz, 5 watt
Output: 3 VDC @ 200 mA
The enclosure and 6ft cord are black. The 3/32" plug is center negative for polarity.
100 to a case.

(1-99) (100-up)
56-361.....$2.25.....$1.99

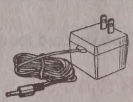
3 VDC @ 500 mA



Mfg. - SONY
Mfg.# - QN-075AC
2-1/4" x 1-5/8" x 1-1/2"
Input: 120 VAC, 60 Hz, 6 W
Output: 3 VDC @ 500 mA
The enclosure and 6ft cord are black. Center is positive for polarity. Coaxial jack: OD - .138", ID - .05".

56-598.....$2.49

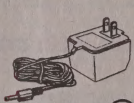
4 VDC @ 75 mA



Mfg. - MELCOR
Mfg.# - 93B020
2" x 1-3/4" x 2-1/8"
Input: 115 VAC, 50/60 Hz
Output: 4 VDC @ 75 mA
The enclosure and 6ft cord are black. The 3/32" plug is positive for polarity.

56-389.....$1.25

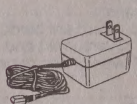
4.5 VDC @ 1 AMP



2" x 1-3/4" x 2-3/4"
Input: 120 VAC, 60 Hz, 9.5 W
Output: 4.5 VDC @ 1 amp
The enclosure and 6ft cord are black. Class 2 transformer. The 1/8" plug is center positive for polarity.

56-420.....$4.95

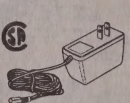
5 VDC @ 1 AMP



Mfg. - IOMEGA
Mfg.# - APS48ER
3-3/16" x 2-1/8" x 1-7/8"
Input: 115 VAC, 60 Hz
Output: 5 VDC @ 1 amp
Regulated
The enclosure and 6ft cord are black. Center is positive for polarity. Right angle coaxial jack: OD - .215", ID - .096". Regulated and filtered.

56-504.....$7.95

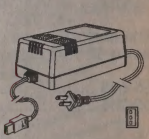
5 VDC @ 1 AMP



Mfg. - INTERMART
Mfg.# - LP051A0-AL
2-3/4" x 1-5/16" x 2"
Input: 120-125 VAC, 50-60 Hz, 150mA
Output: 5 VDC @ 1 amp
The enclosure and 6ft cord are black. Center is positive for polarity. Right angle coaxial jack OD - .15", ID - .07"

56-615.....$7.95

5 VDC @ 1.5 AMP

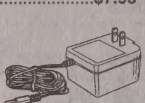


Regulated

Mfg.# - 7202C-3
5-13/16" x 2-1/2" x 2-7/8"
Input: 117 VAC, 60 Hz
Output: 5 VDC @ 1.5 amp
The enclosure and cords are black. Regulated and filtered.

56-534.....$8.95

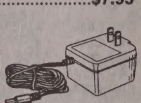
5 VDC @ 1.6 AMP



Mfg.# - AFK-520C1
2-7/8" x 2-1/4" x 1-7/8"
Input: 120 VAC, 60 Hz, 20 watt
Output: 5 VDC @ 1.6 amp
The enclosure and the 6ft cord are black. Center is negative for polarity. Coaxial jack: OD - .215", ID - .081"

56-602.....$7.95

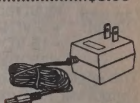
5 VDC @ 2 AMP



Mfg. - HONDA
2-1/4" x 2-7/8" x 1-7/8"
Input: 120 VAC, 60 Hz, 20 watt
Output: 5 VDC @ 2 amp
The enclosure and the 6ft cord are black. Center is negative for polarity. Coaxial jack: OD - .215", ID - .081"

56-288.....$7.95

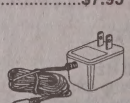
6 VDC @ 200mA



Mfg. - STANCOR
Mfg.# - STA-3560-2
1-3/4" x 1-1/2" x 2-1/4"
Input: 120 VAC, 60 Hz, 6 watt
Output: 6 VDC @ 200mA
The enclosure and 6ft cord are black. Center is negative for polarity. Coaxial jack: OD - .215", ID - .096".

56-417.....$2.25

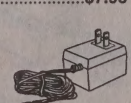
6 VDC @ 200 mA



Mfg. - CASIO
Mfg.# - A60024IU
2" x 1-7/16" x 1-3/8"
Input: 120 VAC, 60 Hz, 3 watt
Output: 6 VDC @ 200 mA
The enclosure and 6ft cord are black. Center is negative for polarity. Coaxial jack: OD - .216", ID - .080".

56-782.....$2.25

6 VDC @ 240 mA



Mfg. - CASIO
Mfg.# - A60024
2-3/16" x 1-1/2" x 1-5/16"
Input: 120 VAC, 60 Hz, 4.5 watt
Output: 6 VDC @ 240 mA
The enclosure and 6ft cord are black. Center is negative for polarity. Coaxial jack: OD - .215", ID - .080".

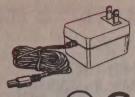
56-783.....$2.25

6 VDC @ 400 mA

Mfg. - SHARP
Mfg.# - RADP-012SDEO
3-1/4" x 2" x 1-5/8"
Input: 120 VAC, 60 Hz, 6.5 watt
Output: 6 VDC @ 400 mA
The enclosure and 6ft cord are black.
Center is positive for polarity. Coaxial jack: OD - .158", ID - .074".

56-506.....$2.99

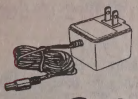
6 VDC @ 800 mA
Regulated



Mfg. - APS
Mfg.# - APS48ER-110
3-1/8" x 2-1/8" x 2"
Input: 120 VAC, 60 Hz, 10 watt
Output: 6 VDC @ 800 mA
The enclosure and the 6ft cord are black. Center is positive for polarity. Coaxial jack: OD - .215", ID - .080". Regulated and filtered.

56-586.....**$4.99**

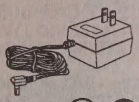
7.5 VDC @ 1.2 AMP



Mfg. - SMITH CORONA
Mfg.# - A40712
2-3/4" x 2-1/4" x 1-3/4"
Input: 120 VAC, 60 Hz, 15 watt
Output: 7.5 VDC @ 1.2 amp
The enclosure and 6ft cord are black. Center is negative for polarity. Coaxial jack: OD - .215", ID - .098".

56-789.....**$4.99**

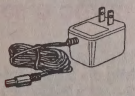
9 VDC @ 210 mA



Mfg. - SONY
Mfg.# - AC-T48
1-3/8" x 1-1/2" x 2-1/4"
Input: 120 VAC, 50/60 Hz, 4 watt
Output: 9 VDC @ 210 mA
The enclosure and 6ft. cord are beige. Center is positive for polarity. Right angle coaxial jack: OD - .188", ID - .069".

56-396.....**$2.35**

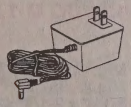
9 VDC @ 300mA



Mfg. - POONGHAN
Mfg.# - PH-0930
2-1/4" x 1-7/8" x 1-5/8"
Input: 120 VAC, 60 Hz, 5 watt
Output: 9 VDC @ 300mA
The enclosure and 6ft cord are black. Center is positive for polarity. Coaxial jack: OD - .215", ID - .082".

56-549.....**$2.99**

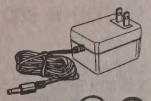
9 VDC @ 500 mA



Mfg. - DICTAPHONE
Mfg.# - 652401
2-1/8" x 1-5/8" x 2-3/8"
Input: 120 VAC, 60 Hz, 12 watt
Output: 9 VDC @ 500 mA
The enclosure and the 6ft cord are light gray. Center is positive for polarity. Right angle coaxial jack: OD - .215", ID - .082".

56-320.....**$2.95**

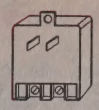
9 VDC @ 1 AMP



Mfg. - ATARI
Mfg.# - C103889-001
2-5/8" x 2-1/8" x 2"
Input: 120 VAC, 60 Hz, 15 watt
Output: 9 VDC @ 1 amp
The enclosure and 6ft cord are black. Center is positive for polarity. Coaxial jack OD - .054", ID - .135".

56-477.....**$5.95**

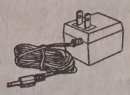
6.6 VDC @ 500 mA



Mfg. - DYNAMIC INST
1-7/8" x 1-7/8" x 1-9/16"
Input: 120 VAC, 60 Hz, 8 watt
Output: 6.6 VDC @ 500 mA
Class 2, the enclosure is black, output via two screw terminals.

56-247.....**$1.49**

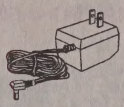
9 VDC @ 200 mA



Mfg. - UNISONIC
Mfg.# - 9200
1-7/8" x 1-1/2" x 2-3/8"
Input: 117 VAC, 60 Hz, 5 watt
Output: 9 VDC @ 200 mA
The enclosure and 6ft cord are black. The 3/32" plug is center negative for polarity.

	(1-99)	*(100-up)*
56-364	**$2.25**	**$1.99**

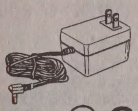
9 VDC @ 210 mA



Mfg. - SONY
Mfg.# - AC-T35
1-3/4" x 1-1/2" x 2-1/2"
Input: 120 VAC, 60 Hz, 4 watt
Output: 9 VDC @ 210 mA
The enclosure and the 6ft cord are black. Center is positive for polarity. Right angle coaxial jack: OD - .188", ID - .065"

91-335.....**$2.35**

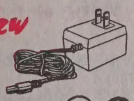
9 VDC @ 350 mA



Mfg. - PANASONIC
Mfg.# - KX-TC1
2-3/4" x 1-3/4" x 1-1/2"
Input: 120 VAC, 60 Hz, 6 watt
Output: 9 VDC @ 350 mA
The enclosure and 6ft cord are gray. Center is negative for polarity. Right angle coaxial jack: OD - .216", ID - .081".

56-787.....**$2.99**

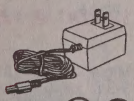
9 VDC @ 500 mA *New*



Mfg. - MICROCOM
Mfg.# - 13-0000083-001
2-3/8" x 1-5/8" x 1-7/8"
Input: 120 VAC, 60 Hz, 11 watt
Output: 9 VDC @ 500 mA
The enclosure and 6ft cord are black. Center is positive for polarity. Coaxial jack OD - .215", ID - .082".

56-803.....**$2.25**

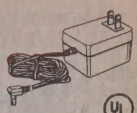
9 VDC @ 1.2 AMP



Mfg. - JAGUAR
Mfg.# - 4811A10T
2-3/4" x 2-1/4" x 1-7/8"
Input: 120 VAC, 60 Hz, 20 watt
Output: 9 VDC @ 1.2 amp
The enclosure and 6ft cord are black. Center is negative for polarity. Coaxial jack: OD - .215", ID - .082"

56-501.....**$6.95**

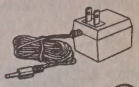
7.5 VDC @ 850 mA



Mfg. - ENG
Mfg.# - 48-7.5-850 D
3-1/8" x 2-1/4" x 1-7/8"
Input: 120 VAC, 60 Hz, 15 watt
Output: 7.5 VDC @ 850 mA
The enclosure and 6ft cord are black. Center is positive for polarity. Right angle coaxial jack: OD - .215", ID - .082".

56-492.....**$4.49**

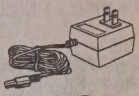
9 VDC @ 200mA



Mfg. - UNISONIC
Mfg.# - 630
2-1/2" x 2" x 1-5/8"
Input: 117 VAC, 50/60 Hz, 10 watt
Output: 9 VDC @ 200mA
The enclosure and 6ft cord are black. The 3/32" plug is center negative for polarity.

56-619.....**$2.25**

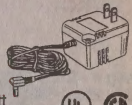
9 VDC @ 300 mA



Mfg.# - UNIDEN
Mfg.# - AD-0930M
2-1/8" x 1-5/8" x 1-1/2"
Input: 120 VAC, 60 Hz, 5 watt
Output: 9 VDC @ 300 mA
The enclosure and 6ft cord are beige. Center is negative for polarity. Coaxial jack: OD - .215", ID - .098"

56-515.....**$2.99**

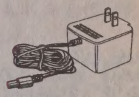
9 VDC @ 450 mA



Mfg. - GE
Mfg.# - 5-2284A
2-1/2" x 2" x 1-5/8"
Input: 120 VAC, 60 Hz, 10 watt
Output: 9 VDC @ 450 mA
The enclosure and 6ft cord are ivory. Center is negative for polarity. Right angle coaxial jack: OD - .197", ID - .061".

56-478.....**$2.99**

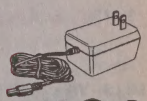
9 VDC @ 800 mA



Mfg. - NUMARK
Mfg.# - AC-100
2-3/8" x 2-1/4" x 1-7/8"
Input: 117 VAC, 60 Hz, 16 watt
Output: 9 VDC @ 800 mA
The enclosure and 6ft cord are black. Center is negative for polarity. Coaxial jack OD - .215", ID - .082".

56-612.....**$4.95**

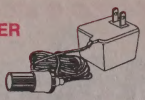
9.5 VDC @ 1.5 AMP



Mfg. - LEXMARK
Mfg.# - 1331560
3-3/4" x 2-1/4" x 1-7/8"
Input: 120 VAC, 60 Hz, 25 watt
Output: 9.5 VDC @ 1.5 amp
The enclosure and 6ft. cord are black. Center is negative for polarity. Coaxial jack: OD - .215", ID - .082"

56-597.....**$6.95**

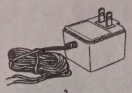
11.6 VDC @ 300mA
NICAD BATTERY CHARGER



Mfg. - AT&T
Mfg.# - 3440T/3450T
2-1/4" x 2" x 1-5/8"
Input: 120 VAC, 60 Hz, 12 watt
Output: 11.6 VDC @ 300mA
Cellular telephone battery charging power supply for models 3240, 3045 and 3043. Charges nickel cadmium batteries only.

56-505.....**$2.25**

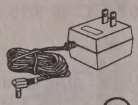
12 VDC @ 300 mA



Mfg. - ALERT PRODUCTS
Mfg.# - AD-1230
2-1/8" x 2-1/8" x 1-5/8"
Input: 120 VAC, 60 Hz, 7 watt
Output: 12 VDC @ 300 mA
Cord has stripped and tinned leads.

56-495.....White.....**$1.35**
56-496.....Black.....**$1.75**

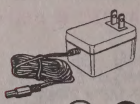
12 VDC @ 500 mA



Mfg. - PANASONIC
Mfg.# - KX-A11
2" x 2-3/8"
Input: 120 VAC, 60 Hz, 12 watt
Output: 12 VDC @ 500 mA
Center is negative for polarity. Right angle coaxial jack: OD - .215", ID - .077"
6ft cord included.

E-1760-B.....Black.....**$2.49**

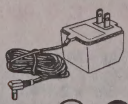
12 VDC @ 700 mA



Mfg.# - CNR-800
3" x 2" x 1-5/8"
Input: 120 VAC, 60 Hz, 18 watt
Output: 12 VDC @ 700 mA
The enclosure and 6ft cord are black. Center is positive for polarity. Right angle coaxial jack: OD - .218", ID - .081".

56-600.....**$2.99**

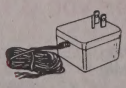
12 VDC @ 1 AMP



Mfg. - NOVATEL
Mfg.# - W48D-J1000-C/2
2-1/2" x 2-1/4" x 2"
Input: 120 VAC, 60 Hz, 30 watt
Output: 12 VDC @ 1 amp filtered
The enclosure and 6ft cord are black. Center is positive for polarity. Right angle coaxial jack: OD - .215", ID - .082".

56-511.....**$4.95**

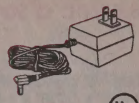
12 VDC @ 1.5 AMP



Mfg.# - WP-571812D
3-3/8" x 2-5/8" x 2-1/4"
Input: 120 VAC, 60 Hz, 40 watt
Output: 12 VDC @ 1.5 amp
The enclosure and 6ft cord are black. Output via spade lug and stripped and tinned end.

56-544.....**$7.95**

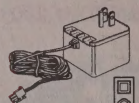
12 VDC @ 200 mA



Mfg. - RADIO SHACK
Mfg.# - DV-1120DC
2-1/8" x 1-3/16" x 1-1/2"
Input: 120 VAC, 60 Hz, 6 watt
Output: 12 VDC @ 200 mA
The enclosure and 6ft cord are black. Center is positive for polarity. Coaxial jack: OD - .215", ID - .082"

56-799.....**$1.99**

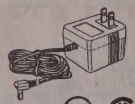
12 VDC @ 400 mA
GROUNDED



Mfg. - ELECTRO MECH
Mfg.# - I-1409
2-3/4" x 2-1/2" x 2"
Input: 120 VAC, 60 Hz, 20 watt
Output: 12 VDC @ 400 mA
The enclosure and 6ft cord are black. Output via a 2 pin molded plug.

56-547.....**$1.99**

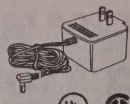
12 VDC @ 500 mA



Mfg. - INNOVA
Mfg.# - AM-12500
1-7/8" x 1-5/8" x 2-1/2"
Input: 120 VAC, 60 Hz, 12 watt
Output: 12 VDC @ 500 mA
The enclosure and 6ft cord are black. The center is positive for polarity. Right angle coaxial jack: OD - .196", ID - .08"

56-436.....**$2.49**

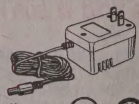
12 VDC @ 800 mA



Mfg.# - DV-1280
2-1/4" x 2-1/4" x 2"
Input: 120 VAC, 60 Hz, 16 watt
Output: 12 VDC @ 800 mA
The enclosure and 6ft cord are black. Center is positive for polarity. Right angle coaxial jack: OD - .235", ID - .12".

56-498.....**$3.49**

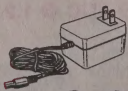
12 VDC @ 1 AMP



Mfg. - SINO-AMERICAN
Mfg.# - A41210
3-1/2" x 2-3/8" x 1-7/8"
Input: 120 VAC, 60 Hz, 35 watt
Output: 12 VDC @ 1 amp
The enclosure and the 6ft cord are black. Center is positive for polarity.
Coaxial jack: OD - .215", ID - .082"

56-557.....**$4.95**

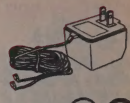
12 VDC @ 1.5 AMP



Mfg.# - WP-571812D
3-3/8" x 2-5/8" x 2-1/4"
Input: 120 VAC, 60 Hz, 40 watt
Output: 12 VDC @ 1.5 amp
The enclosure and 6ft cord are black. Center is positive for polarity. Coaxial jack: OD - .215". ID - .096"

56-771.....**$7.95**

12 VDC @ 200 mA



Mfg. - AT&T
Mfg.# - 4000T
1-3/4" x 1-1/2" x 2-1/4"
Input: 120 VAC, 60 Hz, 6 watt
Output: 12 VDC @ 200 mA
The enclosure and the 6ft cord are gray.
Output via two 1/8" right angle connectors.

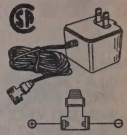
(1-99) (100-up)
56-309.....**$1.50**.....**$ .99**

12 VDC @ 500 mA

Mfg. - SEGA
Mfg.# - 628-L00003-08A8
2-1/2" x 2" x 1-5/8"
Input: 120 VAC, 60 Hz, 9 watt
Output: 12 VDC @ 500 mA
The enclosure and 6ft cord are black.
Center is positive for polarity.
Coaxial jack: OD - .215", ID - .096"

56-661.....**$2.49**

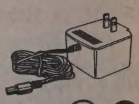
12 VDC @ 600 mA
PANASONIC TYPE BATTERY CHARGER



Mfg. - IMC, #48-260-A
2-3/8" x 1-7/8" x 2-1/4"
Input: 120 VAC, 60 Hz, 15 watt
Output: 12 VDC @ 600 mA
The enclosure and 6ft cord are black. End connector is used to charge Panasonic® cellular and camcorder batteries. Charges Panasonic® PU-BP80, BP88, BP50 and EB-362.

56-386.....**$2.99**

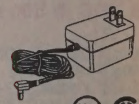
12 VDC @ 800mA



Mfg. - ASANTE
Mfg.# - 52-00007-00
2-1/4" x 2-1/4" x 1-7/8"
Input: 120 VAC, 60 Hz, 16 watt
Output: 12 VDC @ 800mA
The enclosure and 6ft cord are black. Center is positive for polarity. Coaxial jack: OD - .195", ID - .082".

56-550.....**$3.99**

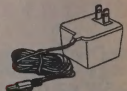
12 VDC @ 1.2 AMP



Mfg. - LUCENT TECH
Mfg.# - 9510T
3-1/4" x 2-1/4" x 2"
Input: 120 VAC, 60 Hz, 22 watt
Output: 12 VDC @ 1.2 amp
The enclosure and 6ft cord are black. Coaxial jack: OD - .216", ID - .081".

56-785.....**$5.95**

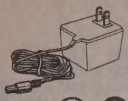
13 VDC @ 800 mA



Mfg.# - SPN4029A
2-5/8" x 2-1/4" x 1-5/8"
Input: 120 VAC, 60 Hz
Output: 13 VDC @ 800 mA
The enclosure and 6ft cord are black. Center is positive for polarity. Coaxial jack: OD - .215", ID - .098"

56-552.....**$3.99**

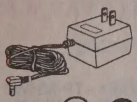
13 VDC @ 800 mA



Mfg.# - AD585
2-1/4" x 1-5/8" x 2-1/4"
Input: 120 VAC, 60 Hz, 25 watt
Output: 13 VDC @ 800 mA
The enclosure and 6ft cord are black. Center is positive for polarity. Coaxial jack: OD - .215". ID - .093"

56-434.....**$3.99**

14 VDC @ 360 mA

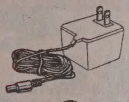


Mfg.# - DV-1250
2-1/4" x 1-7/8" x 1-5/8"
Input: 120 VAC, 60 Hz, 12 watt
Output: 14 VDC @ 360 mA
The enclosure and 6ft cord are black. Center is positive for polarity. Right angle coaxial jack: OD - .215", ID - .098".

56-493.....**$1.75**

15 VDC @ 600 mA

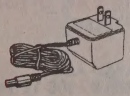
New



Mfg. - STANCOR
Mfg.# - STA-4815
2-1/4" x 1-7/8" x 2-1/2"
Input: 120 VAC, 60 Hz, 15 watt
Output: 15 VDC @ 600 mA
The enclosure and 6ft cord are black. Center is negative for polarity. Coaxial jack: OD - .215", ID - .082".

56-802.....**$3.95**

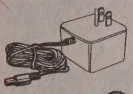
15 VDC @ 900 mA



Mfg. - ALTEC LANSING
Mfg.# - 4815090R3CT
2-5/8" x 2-1/4" x 2"
Input: 120 VAC, 60 Hz, 19 watt
Output: 15 VDC @ 900 mA
The enclosure and 6ft cord are grey. Center is positive for polarity. Coaxial jack: OD - .215", ID - .08"

56-660.....**$5.95**

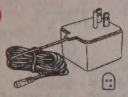
16 VDC @ 700mA



Mfg. - SYMBOL
Mfg.# - 54410-00-00
3" x 2-5/8" x 1-7/8"
Input: 120 VAC, 60 Hz
Output: 16 VDC @ 700mA
The enclosure and 6ft cord are black. Center is positive for polarity. Coaxial jack: OD - .215", ID - .082"

56-485.....**$5.95**

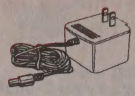
8 VAC @ 1 AMP (8 vA)



Mfg. - APPLE
2-1/4" x 2" x 1-3/4"
Input: 120 VAC, 60 Hz
Output: 8 VAC @ 1 amp (8 vA)
The enclosure and the 6ft cord are off-white. Out via 3 pin connector. Originally intended for use with Apple modem.

56-525.....**$1.99**

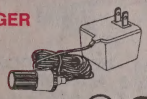
13.5 VDC @ 700 mA



Mfg.# - RADPA0013UA2A
2-1/4" x 2-1/4" x 2"
Input: 120 VAC, 60 Hz, 17 watt
Output: 13.5 VDC @ 700 mA
The enclosure and 6ft cord are black. Center is positive for polarity. Coaxial jack: OD - .215", ID - .082".

56-499.....**$3.99**

14.5 VDC @ 300mA
NICAD BATTERY CHARGER

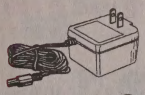


Mfg. - AT&T
Mfg.# - 3440T1/3450T1
2-5/8" x 1-5/8" x 2-1/8"
Input: 120 VAC, 60 Hz, 16 watt
Output: 14.5 VDC @ 300mA
Cellular telephone battery charging power supply for models 3440 and 3450. Charges nickel cadmium batteries only.

56-484.....**$3.99**

15 VDC @ 800 mA

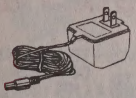
New



2-1/2" x 2-1/4" x 2"
Input: 120 VAC, 60 Hz, 25 watt
Output: 15 VDC @ 800 mA
The enclosure and 6ft cord are beige. Center is positive for polarity. Coaxial jack: OD - .215", ID - .082".

56-800.....**$4.95**

15 VDC @ 900 mA



Mfg.# - 481509003C0
2-1/2" x 2" x 2-1/4"
Input: 120 VAC, 60 Hz, 19 watt
Output: 15 VDC @ 900 mA
The enclosure and 6ft cord are black. The center is positive for polarity. Coaxial jack: OD - .215", ID - .098".

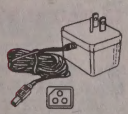
56-528.....**$5.95**

DUAL 6 VAC 1.5 AMP DESKTOP

Mfg. - MILTON BRADLEY
Mfg.# - DV-9034A
2-3/4" x 3-1/2" x 2-5/8"
Input: 120 VAC, 60 Hz, 42 watt
Output: 6 VAC - 1.5 amp

56-231.....**$1.99**

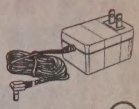
8.5 VAC @ 1.35 AMP GROUNDED



Mfg.# - 338-1088
2-1/4" x 2" x 2"
Input: 120 VAC, 60 Hz, 16 VA
Output: 8.5 VAC @ 1.35 amp
The enclosure and the 6ft cord are black. Output via a 3 pin molded plug.

56-510.....**$1.75**

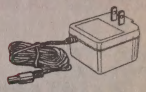
13.5 VDC @ 850 mA



Mfg. - ACTION
Mfg.# - 48-13.5-850 D
2-1/4" x 2-1/4" x 2"
Input: 120 VAC, 60 Hz, 19 watt
Output: 13.5 VDC @ 850 mA
The enclosure and 6ft cord are black. Center is positive for polarity. Right angle coaxial jack: OD - .215", ID - .082".

56-500.....**$4.95**

15 VDC @ 400 mA

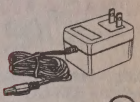


Mfg. - SEGA
Mfg.# - PP-1508
2-1/2" x 1-7/8" x 1-3/4"
Input: 115 VAC, 60 Hz, 8 watt
Output: 15 VDC @ 400 mA
The enclosure and 6ft cord are black. Center is positive for polarity. Coaxial jack: OD - .138", ID - .048"

56-665.....**$2.49**

15 VDC @ 800 mA

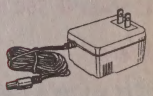
New



3-1/4" x 2-1/4" x 1-7/8"
Input: 120 VAC, 60 Hz, 25 watt
Output: 15 VDC @ 800 mA
The enclosure and 6ft cord are beige. Center is positive for polarity. Coaxial jack: OD - .215", ID - .082".

56-801.....**$4.95**

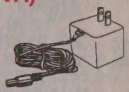
15 VDC @ 1 AMP



Mfg. - LABTEC
Mfg. - AD-SS-2
3-3/4" x 2-1/2" x 2-1/8"
Input 120 VAC, 60Hz, 20.9 watt
Output 15 VDC @ 1 amp
The enclosure and 6ft cords are tan. Center is negative for polarity. Coaxial jack OD - .215", ID - .080".

56-666.....**$5.95**

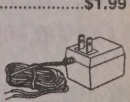
7 VAC @ 1.4 AMP (10 vA)



Mfg. - AULT
Mfg.# - 328-1107-001E3
2-1/4" x 2" x 1-7/8"
Input: 120 VAC, 60 Hz
Output: 7 VAC @ 1.4 amp (10 vA)
The enclosure and the 6ft cord are black.. Coaxial jack: OD - .215", ID - .098".

56-519.....**$1.99**

9 VAC @ 150 mA



Mfg. - VIEWSONICS
Mfg.# - VSADP-20
2-1/4" x 1-5/8" x 1-3/8"
Input: 115 VAC, 60 Hz, 3 watt
Output: 9 VAC @ 150 mA
The enclosure and 6ft cord are black. Cord has stripped and tinned leads.

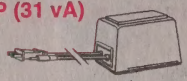
56-475.....**$1.49**

9 VAC @ 780 mA

Mfg. - AT&T
Mfg.# - DAS-2
2-5/8" x 2-1/8" x 1-7/8"
Input: 120 VAC, 60 Hz, 15 watt
Output: 9 VAC @ 780 mA
The enclosure and the 6ft cord are white. Right angle coaxial jack: OD - .215", ID - .082"

56-554.....$2.49

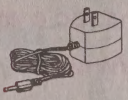
9 VAC @ 3.4 AMP (31 vA)



Mfg. - ATARI
Mfg.# - C017945
3-1/2" x 2-5/8" x 2-1/2"
Input: 120 VAC, 60 Hz
Output: 9 VAC @ 3.4 amp (31 vA)
The enclosure and the cords are black. Both input and output cord is 6ft. Coaxial jack: OD - .215", ID - .098"

56-518.....$8.95

12 VAC @ 150 mA

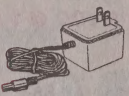


Mfg. - HAMILTON BEACH
Mfg.# - 533-CG
2" x 1-5/8" x 1-1/2"
Input: 120 VAC, 60 Hz, 9 watt
Output: 12 VAC @ 150 mA
The enclosure and the 6ft cord are white. 1/8" plug.

56-217.....$1.49

12 VAC @ 750 mA

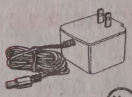
New



2-1/2" x 1-7/8" x 1-3/4"
Input: 120 VAC, 60 Hz, 16.5 watt
Output: 12 VAC @ 750 mA
The enclosure and 6ft cord are black. Coaxial jack: OD - .215", ID - .095".

56-796.....$2.49

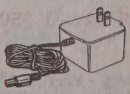
12 VAC @ 1.25 AMP



Mfg. - GCH SYSTEMS
Mfg.# - DV-1215A
2-3/8" x 1-7/8" x 2-1/4"
Input: 120 VAC, 60 Hz, 30 watt
Output: 12 VAC @ 1.25 Amp
The enclosure and the 6ft cord are black. Plug-in class 2. Coaxial jack: OD - .194", ID - .08"

56-358.....$4.49

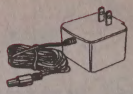
14 VAC @ 200 mA



Mfg. - NUREALITY
Mfg.# - W35A-14200
2-1/4" x 1-5/8" x 1-9/16"
Input: 115 VAC, 60 Hz, 6 watt
Output: 14 VAC @ 200 mA
The enclosure and 6ft cord are black. Coaxial jack: OD - .215", ID - .098".

56-531.....$1.25

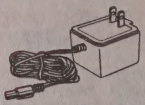
9 VAC @ 1 AMP



Mfg. - AMIGO
Mfg.# - AM-91000A
2-1/4" x 2-1/8" x 1-5/8"
Input: 120 VAC, 60 Hz, 15 watt
Output: 9 VAC @ 1 amp
The enclosure and 6ft cord are black. Coaxial jack: OD - .215", ID - .082"

56-613.....$4.95

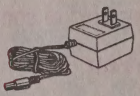
9.2 VAC @ 700 mA



Mfg. - US ROBOTICS
Mfg.# - HA-419700
2" x 2" x 1-5/8"
Input: 120 VAC, 60 Hz, 15 watt
Output: 9.2 VAC @ 700 mA
The enclosure and the 6ft cord are black. Coaxial jack: OD - .215", ID - .096"

56-555.....$2.49

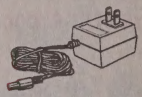
12 VAC @ 500 mA



Mfg. - WRC
Mfg.# - A7-10-01
2" x 2-1/4" x 1-5/8"
Input: 120 VAC, 60 Hz
Output: 12 VAC @ 500 mA
The enclosure and 6ft cord are black. Coaxial jack: OD - .215", ID - .082".

56-551.....$1.99

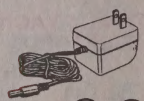
12 VAC @ 800 mA



Mfg. - TECHNICAL DEVICES
Mfg.# - HA-1280
2-3/8" x 2" x 1-5/8"
Input: 120 VAC, 60 Hz, 17 watt
Output: 12 VAC @ 800 mA
The enclosure and 6ft cord are black. Coaxial jack: OD - .215", ID - .096".

56-788.....$2.49

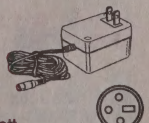
12 VAC @ 1.3 AMP



Mfg. - GROUP WEST
Mfg.# - 48A-12-1300
3-1/4" x 2-1/4' x 2"
Input: 120 VAC, 60 Hz, 22 watt
Output: 12 VAC @ 1.3 amp
The enclosure and the 6ft cord are black. Coaxial jack: OD - .215", ID - .098".

56-569.....$3.95

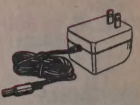
15 VAC @ 1800 mA



Mfg. - GROUP WEST
Mfg.# - 57A-15-1800CT
3-3/8" x 2-1/2" x 2-1/8"
Input: 120 VAC, 60 Hz, 38 watt
Output: 15 VAC @ 1800 mA
The enclosure and 6ft cord are black.
Output via 180° 3 pin male mini din.

56-781.....$3.95

9 VAC @ 1.3 AMP



Mfg. - TENGEN
Mfg.# - 3000
3" x 2-1/4" x 1-7/8"
Input: 120 VAC, 60 Hz, 22vA
Output: 9 VAC @ 1.3 amp
The enclosure and 6ft cord are black. Coaxial jack: OD - .215", ID - .082". Originally intended for NINTENDO control deck

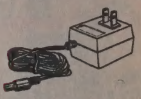
56-540.....$5.95

11.2 VAC @ 400 mA

Mfg.# - TP-MHW2
2-3/8" x 1-15/16" x 1-9/16"
Input: 120 VAC, 60 Hz, 7 watt
Output: 11.2 VAC @ 400 mA
The enclosure and 6ft cord are black. Cord has stripped and tinned leads.

56-786.....$1.49

12 VAC @ 600 mA



Mfg. - ATI
Mfg.# - DV-1260
2-3/8" x 2" x 1-5/8"
Input: 120 VAC, 60 Hz, 10 watt
Output: 12 VAC @ 600 mA
The enclosure and 6ft cord are black. Coaxial jack: OD - .215", ID - .082".

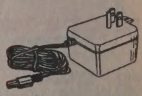
56-546.....$2.25

12 VAC @ 830 mA (10 vA)

Mfg. - AULT
Mfg.# - 308-1112-000
2-1/4" x 1-7/8" x 2"
Input: 120 VAC, 60 Hz, .13 amp
Output: 12 VAC @ 830 mA (10 vA)
Beige plug in class 2 transformer
Output via screw terminals

56-541.....$1.99

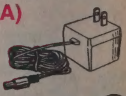
13.7 VAC @ 2.4 AMP



Mfg. - JEROME
Mfg.# - PITF-32
3-1/4" x 2-3/4" x 2-1/4"
Input: 120 VAC, 60 Hz
Output: 13.7 VAC @ 2.4 AMP
The enclosure and 6ft cord are black. Coaxial jack: OD - .215", ID - .098".

56-521.....$7.95

16 VAC @ 625 mA (10vA)



Mfg. - AT&T
Mfg.# - 5500
2-5/8" x 2-1/4" x 2-5/8"
Input: 120 VAC, 60 Hz, 16 watt
Output: 16 VAC @ 625 mA (10 vA)
The enclosure and 6ft cord are black. Coaxial plug OD - .196", ID - .082".

56-530.....$2.49

16 VAC @ 1.25 AMP (20 vA)

Mfg. - AULT
Mfg.# - 318-2016-00E
2-3/16" x 1-7/8" x 1-7/8"
Input: 120 VAC, 60 Hz (Grounded)
Output: 16 VAC @ 1.25 amp (20 vA)
Black plug in class 2 transformer.
Output via screw terminals.

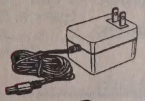
56-522.....$2.95

16.5 VAC @ 900 mA (15 vA)

Mfg. - BASSLER
3" x 2" x 2-1/4"
Input: 120 VAC, 60 Hz
Output: 16.5 VAC @ 15 vA (900mA)
Plug-in class 2 transformer. Output via two screw.

56-517.....$2.49

18 VAC @ 1.5 AMP



Mfg.# - 57A-18-1500
3-1/4" x 2-1/2" x 2-1/8"
Input: 120 VAC, 60 Hz, 41 watt
Output: 18 VAC @ 1500 mA
The enclosure and 6ft cord are black. Coaxial jack: OD - .215", ID - .082".

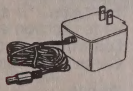
56-542.....$4.95

19 VAC @ 840 mA

Mfg. - POTRANS
Mfg.# - WP571619
2-1/2" x 3-1/2" x 2-1/8"
Input: 120 VAC, 60 Hz, 25 watt
Output: 19 VAC @ 840 mA
Class 2, plug-in transformer. The enclosure is black. Output via two screw terminals.

56-310.....$2.75

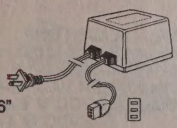
20 VAC @ 800 mA



Mfg. - US ROBOTICS
Mfg.# - HA-2080
2-1/4" x 1-7/8" x 1-7/8"
Input: 120 VAC, 60 Hz
Output: 20 VAC @ 800 mA
The enclosure and 6ft cord are black. Coaxial jack: OD - .216", ID - .081".

56-784.....$2.99

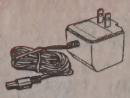
24 VAC @ 700mA



Mfg. - AULT
3-3/16" x 2-3/16' x 1-3/16"
Input 120 VAC
Output 24 VAC @ 700mA
The enclosure and 6ft input/output cords are black. Out via 3 pin molex connector.

56-663.....$2.99

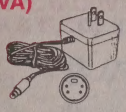
16 VAC @ 1.25 AMP



2-1/4" x 2-1/2" x 2"
Input: 120 VAC, 60 Hz, 28 watt
Output: 16 VAC @ 1.25 amp
The enclosure and 6ft cord are black.
Coaxial jack: OD - .189", ID - .056".

56-382.....$7.95

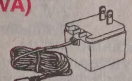
18 VAC @ 550 mA (10 vA)



Mfg. - AULT
Mfg.# - 338-1118-GOIE
2-1/4" x 2" x 2"
Input: 120 VAC, 60 Hz
Output: 18 VAC @ 500 mA (10 vA)
The enclosure and the 6ft cord are black.
Output via four pin connector. Grounded.

56-537.....$3.49

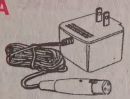
18 VAC @ 1.6 AMP (30 vA)



Mfg. - BASLER
Mfg.# - BE116330AAB 0011
3-1/4" x 2-1/2" x 2-1/8"
Input: 120 VAC, 60 Hz, 36 watt
Output: 18 VAC @ 1.6 amp
The enclosure and 6ft cord are black. Coaxial jack: OD - .215", ID - .082".

56-543.....$4.95

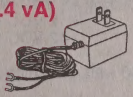
19.3 VAC CT @ 600 mA



Mfg. - TELTREND
Mfg.# - WP481220C
2-1/2" x 2-3/8" x 1-7/8"
Input: 120 VAC, 60 Hz, 20 watt
Output: 19.3 VAC CT @ 600 mA
The enclosure and 6ft cord are black.
3 pin Female XLR connector.

56-356.....$2.49
30-526.....3 pin Male XLR Connector.....$2.50

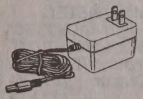
24 VAC @ 600 mA (14.4 vA)



Mfg. - JAMES HARDIE
3-1/8" x 2-1/4" x 1-7/8"
Input: 120 VAC, 60 Hz, 18 watt
Output: 24 VAC @ 14.4 vA (600mA)
The enclosure and 6ft cord are black. Cord is terminated with two spade lugs.

56-481.....$2.99

24 VAC @ 830 mA



Mfg. - HI TECH
Mfg.# - WP572024
3-1/4" x 2-5/8" x 2-1/8"
Input: 120 VAC, 60 Hz, 30 watt
Output: 24 VAC @ 830 mA
The enclosure and 6ft cord are black. Coaxial plug: OD - .215", .082".

56-532.....$4.99

16 VAC @ 2.5 AMP (40 vA)

Mfg.# - 1-57849-03BF
3-3/8" x 2-5/8" x 2-1/4"
Input: 120 VAC, 60 Hz (Grounded)
Output: 16 VAC @ 2.5 amp (40 vA)
Output via 6ft black cord with 5 pin (180°) male din connector.

56-589.....$4.95

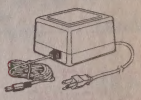
18 VAC @ 1.1 AMP (20vA)

Mfg. - BASLER
Mfg.# - BE114720CAA
3" x 2-3/8" x 1-7/8"
Input: 120 VAC, 60 Hz
Output: 18 VAC @ 1.1 amp (20vA)
Beige plug-in class 2 transformer
Output via screw terminals

56-588.....$2.75

18 VAC @ 4 AMP

Desk Top



Mfg.# - ACD-812
3-3/4" x 3-1/8" x 2-3/4"
Input: 110 VAC, 60 Hz, 50 watt
Output: 18 VAC @ 4 amp
Black class 2 transformer
6ft black 18/3 cord, output via 6ft black cord.
Coaxial jack: OD - .215", ID - .095"

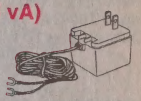
56-590.....$24.95

20 VAC @ 700 mA

Mfg.# - WP571420G
3-1/2" x 2-1/4" x 2-1/2"
Input: 120 VAC, 60 Hz
Output: 20 VAC @ 700 mA
Class 2, plug in transformer
The enclosure is black. Output via two screw terminals.

56-526.....$2.75

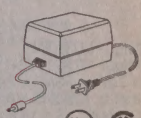
24 VAC @ 625 mA (15 vA)



Mfg. - BASLER
2-3/8" x 1-7/8" x 3"
Input: 120 VAC, 60 Hz
Output: 24 VAC @ 15 vA (625 mA)
The enclosure and 6ft cord are black. Cord is terminated with two spade lugs. Plug-in class 2.

56-439.....$3.49

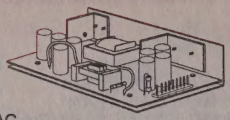
24 VAC @ 1.46 AMP



Mfg. - HARMON/KARDON
3-1/2" x 2-1/2" x 2-1/8"
Input 120 VAC, 48 Hz
Output 24 VAC @ 1.46 amp
The enclosure and 6ft input/output cords are black. Coaxial plug: OD - .215", ID - .08".

56-664.....$4.95

5 VDC @ 10 AMP



Mfg. - PHIHONG
6-3/8" x 4" x 2"
Input: 120/240 VAC
Output: 5 VDC @ 10 amp
50 watts, switching power supply.

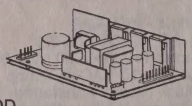
40-143.....**$9.95**

GAME SWITCHING POWER SUPPLY

Mfg. - IMPERIAL
7"(L) x 4-7/8"(W) x 2"(H), 1-1/2 lb
Input: 110/220V
Output: +5 VDC @ 12 amp
-5 VDC @ 1 amp
+12 VDC @ 2 amp
Short circuit, overload over voltage protection. High effiency, low ripple. 100% burn in enclosed.

40-193.....**$19.95**

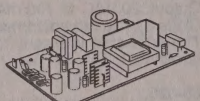
15 WATT SWITCHING



Mfg. - COSEL
Mfg.# - PMC15E-XKOD
4-5/16"(L) x 2-3/8"(W) x 1-7/16"(H)
Input: 100-240 VAC, 50-60 Hz
Output: +5 VDC @ 2 amp
-12 VDC @ 200 mA
+12 VDC @ 300 mA
Fused, filtered and regulated. The +5 VDC @ 2 amp output is isolated from the other output and is adjustable ± 10%.

40-190.....**$9.95**

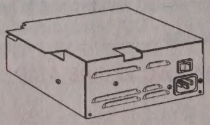
40 WATT SWITCHING



Mfg. - COMPUTER PRODUCTS
Mfg.# - NFS50-7630
6-1/4"(L) x 4"(W) x 1-1/2"(H)
Input: 100-240 VAC, 50/60 Hz
Output: +12 VDC @ 2 amp
2.5 amp (with 20 CFM fan)
+5 VDC @ 4 amp
5 amp (with 20 CFM fan)
Input/Output - .156" Molex
Spec sheet included. (Fan not included)

40-194.....**$7.95**

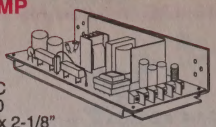
46 WATT SWITCHING



Mfg. - LITEON
Mfg.# - PA-2460-1
5-7/8" x 4-5/8" x 2-1/2"
Input: 100-240 VAC
Output: 5.1 VDC @ 3.5 amp
12 VDC @ 2.3 amp
46 watt switching power supply.

40-188.....**$7.95**

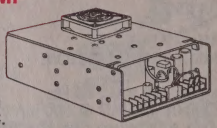
5 VDC @ 12 AMP



Mfg. - PANASONIC
Mfg.# - ETU-5V120
8-1/16" x 3-13/16" x 2-1/8"
Input: 100-120 VAC/220-240 VAC
Output: 5 VDC @ 12 amp
96 watt, 47-440 Hz, switching power supply.

40-174.....**$12.95**

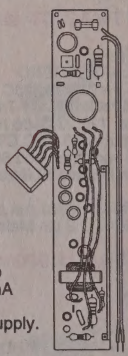
5 VDC @ 31 AMP 12 VDC @ 3 AMP



Mfg. - SWITCHING POWER INC.
Mfg.# - OFSX-100U
6" x 4-3/4" x 2-1/2", 4 lbs
Input: 115 VAC - 240 VAC
Outputs: 5 VDC @ 31 amp
Adjustable 3.7 - 6.3 VDC
12 VDC @ 3 amp
Adjustable 10.4 - 12.7 VDC
Isolated inputs. Overvoltage, short circuit, overload and overtemperature protection. Fused, filtered and regulated. Cooling fan provides 30 CFM of cooling. 1% ripple & noise or 100mV whichever is greater. 20MHz bandwidth.

40-205.....**$29.95**

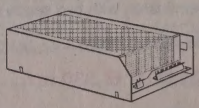
40 WATT SWITCHING



Mfg. - KYOSAN
Mfg.# - KCT040FJ6
14-1/8" x 2-1/4" x 1-3/4"
Input: 90-127 VAC
Output: +5 VDC @ 4 amp
+ 12 VDC @ 1 amp
- 12 VDC @ 400 mA
40 watt, switching power supply.

40-136.....**$2.25**

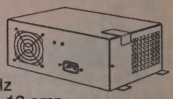
65 WATT SWITCHING



Mfg. - ASTEC
Mfg.# - AC9335-01
8" x 4-3/8" x 2-3/8"
Input: 115 VAC, 230 VAC, 50/60 Hz
Output: +5 VDC @ 6 amp
+12 VDC @ 1.5 amp
+12 VDC @ 2.1 amp
-12 VDC @ 250 mA
65 watts, switching power supply
Fully regulated outputs

40-180.....**$7.95**

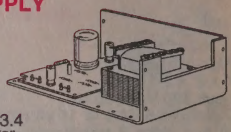
+12 VDC @ 4.13 AMP +5 VDC @ 3.04 AMP SWITCHING



Mfg. - TRW
Mfg.# - 095-10040-081
11" x 7" x 4-3/8"
Input: 115 VAC, 50/60 Hz
Output: +12 VDC @ 4.13 amp
+5 VDC @ 3.04 amp
Switching power supply

40-181.....**$9.95**

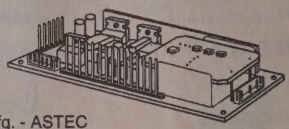
12 VDC @ 3.4 AMP LINEAR POWER SUPPLY



Mfg. - ACDC
Mfg.# - EVC12N3.4
5" x 2-1/2" x 5-5/8"
Input: 100-240 VAC
Output: 12 VDC @ 3.4 amp
Regulated with overload and short circuit protection. 40 watt.

40-176.....**$24.95**

28 WATT POWER SUPPLY MODULE WITH CCFT BACKLIGHT INVERTER TO NOTEBOOK COMPUTERS



Mfg. - ASTEC
Mfg.# - AA9090A
3.6"L x 1.6"W x .8"H
Input: 6-11 V (from battery)
Output: +5.1 VDC @ 3.75 Amp
-26 VDC @ 40 mA
+12 VDC @ .1 Amp
350 VAC @ 5 mA
Designed to handle the power conversion requirements in a note-book size personal computer. It consists of a DC-DC converter section and a DC-AC inverter section which can drive two CCFT backlights. Comes with complete specifications.

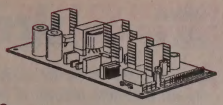
40-206.....**$8.75**

80 WATT SWITCHING

Mfg. - POWER ONE
Mfg.# - SPL53-3200
8-1/2" x 4-1/2" x 2-1/8"
Input: 90-264 VAC, 47-63 Hz
Output: +5 VDC @ 8 amp
+ 12 VDC @ 4 amp (6A Pk)
+ 24 VDC @ 1.5 amp (2.5A Pk)
80 watts, switching power supply.
Fully regulated outputs.

40-154.....**$19.95**

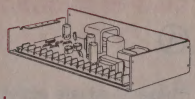
95 WATT SWITCHING



Mfg.# - LR5105-02
7-3/4" x 4-1/4" x 2-1/8"
Input: 115/230 VAC, 47-63 Hz
Outputs: +5 VDC @ 10 amp
+12 VDC @ 3 amp
- 12 VDC @ .5 amp
- 5 VDC @ .5 amp
95 watts, switching power supply

40-195.....**$22.95**

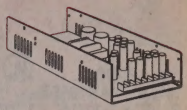
120 WATT SWITCHING



Mfg. - LH RESEARCH
Mfg.# - TTM23-E0929
9" x 2-3/4" x 4-7/8"
Input: 115/230, 47-440 Hz
Output: +5 VDC @ 10 amp
+12 VDC @ 5 amp
-12 VDC @ .5 amp
120 watts, switching power supply.

40-157.....**$19.95**

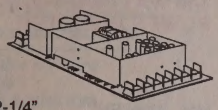
120 WATT SWITCHING



Mfg. - POWER ONE
Mfg.# - SPL130-4001
10-1/2" x 5" x 2-1/2"
Input: 110/220 VAC, 50/60 Hz
Output: +5 VDC @ 22 amp
+5 VDC @ 22 amp
-5 VDC @ 1.5 amp
+15 VDC @ 3 amp
-15 VDC @ 1.5 amp
120 watts, switching power supply.

40-156.....**$29.95**

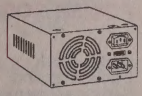
140 WATT SWITCHING



Mfg. - CONDOR
Mfg.# - SDM140A
10-1/4" x 4-3/4" x 2-1/4"
Input: 115/230 VAC
Output: +5 VDC @ 15 amp
-5 VDC @ .6 amp
+12 VDC @ 3 amp
+12 VDC @ 3 amp isolated
-12 VDC @ 3 amp
140 watts, switching power supply

40-146.....**$29.95**

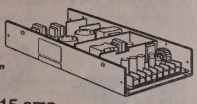
145 WATT PC COMPUTER SUPPLY



Mfg. - ASTEC
Mfg.# - SA145-3420
5-1/2" x 5-7/8" x 3-3/8"
Input: 115/230 VAC switchable, 50/60 Hz
Output: +5 VDC @ 18 amp
- 5 VDC @ .30 amp
+12 VDC @ 4.2 amp
- 12 VDC @ .30 amp
145 watt, cable harness with connectors
Fully regulated outputs

40-171.....**$29.95**

150 WATT SWITCHING



Mfg. - POWER ONE
Mfg.# - SPL150-4102
8" x 2" x 4"
Input: 90-264 VAC, 47-63 Hz
Output: +5 VDC @ 15 amp
-5 VDC @ .5 amp
+12 VDC @ 5 amp (8A pk)
+12 VDC @ .5 amp
150 watts, switching power supply
Fully regulated outputs

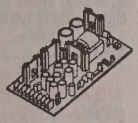
40-155.....**$29.95**

150 WATT SWITCHING

Mfg. - ASTEC
Mfg.# - RBQ152
7-3/4" x 3-3/4" x 1-1/2"
Input: 110/220 VAC
Output: +5 VDC @ 15 amp
+12 VDC @ 1 amp
-12 VDC @ 1 amp
+24 VDC @ 3 amp
150 watt switching power supply.
Built-in EMI filter.
Overvoltage and overload protection.

40-184.....**$29.95**

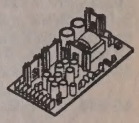
175 WATT SWITCHING



Mfg. - POWER ONE
Mfg.# - SWA175-4100
9" x 4-3/4" x 2-3/8"
Input: 90-264 VAC, 47-63 Hz
Output: +5 VDC @ 20 amp
-5 VDC @ 1.5 amp
+12 VDC @ 5 amp (8A Pk)
-12 VDC @ 1.5 amp
175 watts, switching power supply.
Fully regulated outputs.

40-147.....**$49.95**

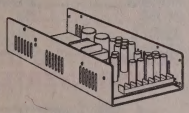
175 WATT SWITCHING



Mfg. - POWER ONE
Mfg.# - SWA175-4200
9" x 4-3/4" x 2-3/8"
Input: 90-264 VAC, 47-63 Hz
Output: +5 VDC @ 20 amp
-5 VDC @ 1.5 amp
-15 VDC @ 1.5 amp
+15 VDC @ 5 amp (8A pk)
175 watts, switching power supply
Fully regulated outputs

40-148.....**$49.95**

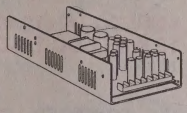
200 WATT SWITCHING



Mfg. - POWER ONE
Mfg.# - SWA200-4100
10-1/2" x 5" x 2-3/4"
Input: 90-264 VAC, 47-63 Hz
Output: +5 VDC @ 25 amp
+12 VDC @ 5 amp (8A pk)
+12 VDC @ 3 amp
-12 VDC @ 3 amp
200 watts, switching power supply
Fully regulated outputs

40-150.....**$49.95**

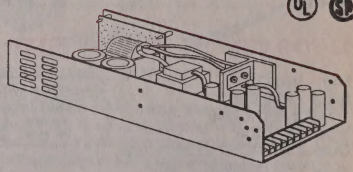
200 WATT SWITCHING



Mfg. - POWER ONE
Mfg.# - SWA200-4200
10-1/2" x 5" x 2-3/4"
Input: 90-264 VAC, 47-63 Hz
Output: +5 VDC @ 25 amp
+12 VDC @ 3 amp
-12 VDC @ 3 amp
+15 VDC @ 5 amp
200 watts, switching power supply
Fully regulated outputs

40-151.....**$49.95**

300 WATT SWITCHING POWER SUPPLY



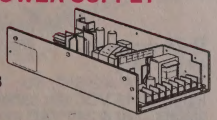
Mfg. - CHEROKEE INT.
Mfg.# - QX5R2K
13-1/2" x 5" x 2-1/2"
With tapped holes for mounting

Input: 115/230 VAC 50/60 Hz jumpers
Output: Main) + 5 VDC @ 50 amp
Aux2) +15 VDC @ 5 amp
Aux3) -15 VDC @ 3 amp
Aux4) +48 VDC @ .1 amp

This 300 watt switching power supply is input surge current limited and features overload and over voltage protection. Output via 8 way block with screw terminals. Spec sheet included.

40-125.....**$49.95**

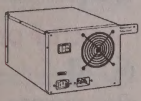
+5 VDC 30 AMP SWITCHING POWER SUPPLY



Mfg. - IPS
Mfg.# - PU200-10B
9" x 5" x 2-1/2"
Input: 90-260 VAC
Output: +5 VDC, 3 common outputs total of 30 amps. Switching power supply with OVP and short circuit protected. 25 CFM required for 200 watt operation. Regulated.

56-609.....**$9.95**

300 WATT PC COMPUTER SUPPLY



Mfg. - ASTEC
Mfg.# - SA300-3400-961
6-1/2" x 5-7/8" x 5-3/4"
Input: 115/230 VAC switchable, 50/60 Hz
Output: - 5 VDC @ .5 amp
+5 VDC @ 35 amp
- 12 VDC @ .5 amp
+12 VDC @ 10 amp
300 watt, cable harness with connectors
Fully regulated outputs

40-172.....**$39.95**

5 VDC 2 AMP ON-BOARD SWITCHING POWER SUPPLY

Mfg. - COSEL
Mfg.# - YAS1005E
2-1/2" x 1-11/16" x 13/16"
Input: 100-240 VAC
Output: 5 VDC @ 2 amp
PC board mount AC/DC converter. Small compact footprint. Inrush current protection. Overcurrent protection. Implements surface mount technology for smaller size & lighter weight.

56-608.....**$19.95**

5V TO12V DC/DC CONVERTER

Mfg. - IPD
Mfg.# - DUS512S4
2" x 1" x 1/2"
Input: 5 VDC
Output: 12 VDC @ 500 mA, 6 watt
Features short circuit protection and 500 VDC isolation. Spec sheet included.

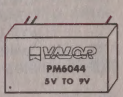
56-607.....**$9.95**

+5V DC/DC CONVERTER

Mfg. - ERICSSON
Mfg.# - PKC4111 PI
3-1/8" x 2-1/8" x 3/16"
Input: 36 to 72 VDC
Output: 5 VDC @ 3 amp, 15 watt
500 VDC isolation

56-606.....**$5.95**

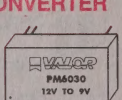
5 TO 9 VOLT DC-DC CONVERTER



Mfg.- VALOR, #PM6044
1-1/4" x 3/4" x 7/16"
Input: 5 VDC
Output: 9 VDC @ 225mA
2000 VAC isolation, 2 watt
70% switching regulated
50-150mVp-p output ripple
Remote on/off for "jumperless" solutions
Spec sheet included

56-614.....**$4.95**

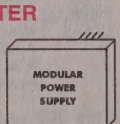
12 TO 9 VOLT DC-DC CONVERTER



Mfg. - VALOR
Mfg.# - PM6030
1-1/4" x 3/4" x 7/16"
Input: 12 VDC
Output: 9 VDC @ 225mA max
2000 VAC isolation, 2 watt
70% switching regulated
Spec sheet included

56-383.....**$5.95**

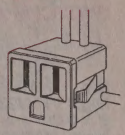
±100V DC/DC CONVERTER



Mfg. - SPRAGUE
Mfg.# - 200ZDCP88101
2-1/2" x 2" x 7/8"
Input: 12 VDC @ 3 amp
Output: +100 VDC
- 100 VDC
Ripple and noise output. 500 mV peak to peak max from 50 Hz to 100 KHz. Transient response 500 micro seconds. Spec sheet included.

56-402.....**$9.95**

SNAP-IN GROUNDING OUTLET

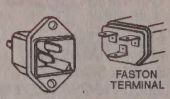


These 1" square outlets are all rated at 15 amp and come with three 14 AWG color coded leads.

Black face with a single 6" lead and two 1/4" quick connects.
21-316.....**$ .55**

White face with a three 6" leads.
21-362.....**$ .55**

POWER CORD RECEPTACLES



Color - Black
2 pole & ground
Verticle screw mount

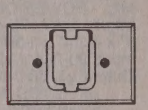
49F6.....6 amp faston.....**$ .20**

AC POWER LINE RECEPTACLE

Mfg. - SCHURTER
1" x 3/4", 15 amp @ 250V
Snap-in mounting, 3/8" quick disconnect. Black. (IEC type)

(1-99) (100-Up)
60-315.....**$ .29**.....**$ .25**

WEATHER PROOF COVER



Mfg. - RED DOT
Mfg.# - CCS
A horizontal single receptacle cover plate. Die cast aluminum construction. Gasket and mounting hardware included.

28-111.....**$ .75**

+24V TO +5/±12 VDC @ 1.5 AMP 15 WATT DC TO DC CONVERTER

Mfg. - COMPUTER PRODUCTS
Mfg.# - ES24T12-310XC
3" x 2-1/2" x 13/16"
Input: 18-36 VDC
Output: 5/±12 VDC @ 1500 mA
15 watt isolated converter. Features short circuit protection, OVP on all outputs, six-sided shield and remote on/off control.

56-630.....**$9.95**

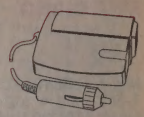
DESKTOP CELLULAR CHARGER

Mfg. - UNITECH
Mfg.# - 48D-12-1000UC
3-1/2" x 2" x 2", 1 lb 3oz
Input: 120 VAC, 60 Hz, 24 watt
Output: 12 VDC @ 1 amp
5-1/2ft long 2 conductor black power cord with molded strain reliefs.
Output via cigarette socket.

56-514.....**$8.95**

50 WATT DC TO AC POWER INVERTER

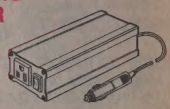
New



Mfg. - CURTIS
3-3/4" x 2-7/8" x 1-1/2"
Input: 10-15 VDC, 5A max (lighter cord)
Output: 115 VAC, 60Hz, 50 watt, 1 outlet
Any 12 VDC power source

PV50.....**1 outlet**.....**$24.95**

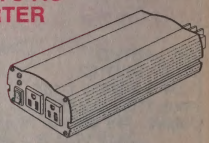
140 WATT DC TO AC POWER INVERTER



Mfg. - WAGEN
Mfg.# - 9618
5-1/2" x 2-1/2" x 1-5/8", 15.2 oz
Input: 10-15 VDC (2'-8" lighter cord)
Output: 115 VAC, 60Hz modified sine wave
Surge: 265 watts (0.1 sec), 15A fuse
On/off power switch

40-202.....**1 outlet**.....**$34.95**

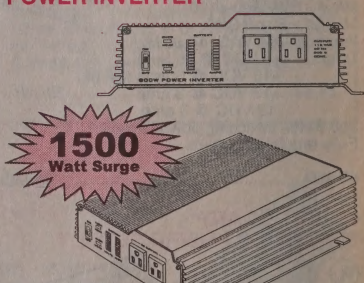
300 WATT DC TO AC POWER INVERTER



Mfg. - WAGEN
Mfg.# - 9621
7-3/4" x 4" x 2-1/4"
Input: 10-15 VDC
(lighter cord and battery clips)
Output: 110 VAC, 60Hz modified sine wave
Surge: 600 watts, 30A fuse
On/off power switch, power and low battery led
Cooling fan, overload protection

40-203.....**2 outlets**.....**$59.95**

800 WATT DC TO AC POWER INVERTER

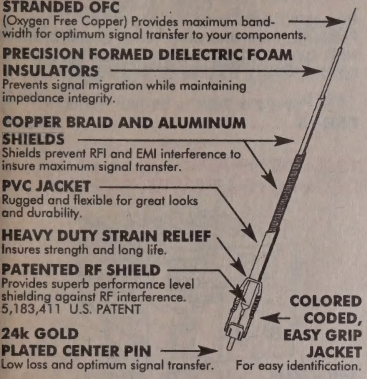


Mfg. - WAGEN
Mfg.# - 9622
12" x 8-1/4" x 2-3/4", 6lb
Input: 10-15 VDC (8ft battery jumper cables)
Output: 110 & 240 VAC modified sine wave
Surge: 1500 watts
On/off power switch, overheat indicator, bar graph meters, cooling fan and chassis ground. Auto low battery shutdown and alarm.

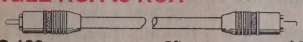
40-204.....**2 outlets**.....**$199.95**

ProLink™ Audio Cables

Made with 18 AWG., 99.96% Oxygen Free Copper, the cable is double shielded for virtually 100% full shielding. It's heavy 24KT. gold plated connectors are also insulated with a patented shield that eliminates all interference, giving a superb performance level found only in higher priced hi-performance cables. A molded center turn on wire eliminates the need to run that extra wire...

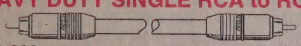


SINGLE RCA to RCA



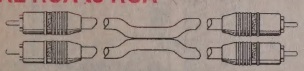
PLC-103	3ft	$3.25
PLC-106	6ft	$4.25
PLC-112	12ft	$5.95
PLC-120	20ft	$8.95

HEAVY DUTY SINGLE RCA to RCA



PLC-303	3ft	$6.55
PLC-306	6ft	$8.49
PLC-312	12ft	$12.25
PLC-320	20ft	$15.49

DUAL RCA to RCA



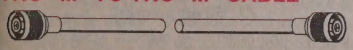
PLC-203	3ft	$6.55
PLC-206	6ft	$8.25
PLC-212	12ft	$11.99
PLC-220	20ft	$15.25

RCA "Y" ADAPTER CABLES

RCA jack to two RCA plugs
PLCY2M $2.49

RCA plug to two RCA jacks
PLCY2F $2.49

TNC "M" TO TNC "M" CABLE

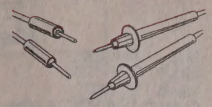


RG-59U

60-201	1ft	$ .99
60-202	2ft	$1.25
60-203	4ft	$1.49

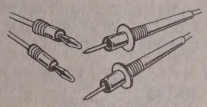
MULTIMETER TEST LEAD SETS

1 black / 1 red
Pin tip plug to pin tip plug.
1000 volt max



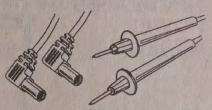
RTL-108 ..... 24" long ..... $ .99

1 black / 1 red
Banana plug to pen style probes.
1200 volt max



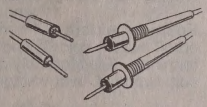
RTL-112 ..... 38" long $3.95

1 black / 1 red
Shielded right angle banana plug to pen style probes.
1200 volt max



RTL-104 ..... 38" long $4.75

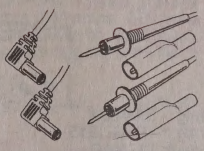
1 black / 1 red
Pen style probe to tip jack.
1000 volt max



52-110 ..... 48" long $3.95

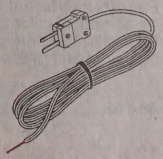
DELUXE

1 black / 1 red
Shielded banana plug to threaded/pointed test tip, also includes 1 black / 1 red threaded insulated alligator clip.
1200 volt max



RTL-111 ..... 42" long $6.45

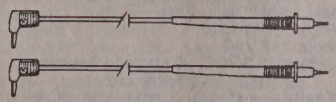
BEADED THERMOCOUPLE PROBE



Mfg. - GDT
K-type probe ranges $0^{o}F$ to $2000^{o}F$ ($-20^{o}C$ to $1370^{o}C$).
Replacement temperature probe.

RTL-110 ..... $11.95

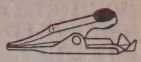
TEST LEADS



These 3 ft. unbreakable red and black leads have strain reliefs on the flexible test prods and banana plugs. Pair.

		(1-24)	(25-Up)
HE468R		$1.99/pr	$1.75/pr

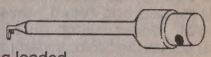
ALLIGATOR CLIPS



Mfg. - MUELLER, #34C
Solder connection
For 20 AWG or smaller wire
1-3/32" clip length, 7/32" jaws open
Copper

52-111 ..... pk of 10/$ .75

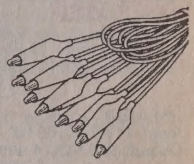
EZ CLIP



2-1/4" long
Solder type, Spring loaded

80-211	Black	$ .50
80-212	Red	$ .50

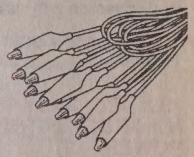
JUMPER TEST LEADS



One set of 10, 12" long 24 AWG color coded test leads with 1" long covered alligator clips soldered at each end. Set has 2 each of 5 colors.

		(1-24)	(25-Up)
52-100	pack of 10	$1.95	$1.79

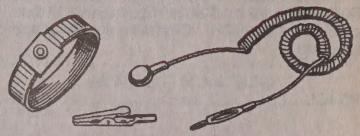
HEAVY DUTY JUMPER TEST LEADS



One set of 10, 12" long 20 AWG color coded test leads with 1" long covered alligator clips at each end. Set has 2 each of 5 colors.

		(1-24)	(25-Up)
AC1	pack of 10	$3.99	$3.79

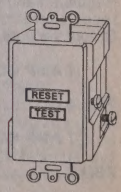
ADJUSTABLE WRIST STRAP



Mfg. - PLASTIC SYSTEMS
Mfg.# - 22115
Adjustable wrist strap set includes comfort band, 12ft cord and alligator clip. Wrist straps dissipate static from personnel before it can damage device being handled.

80-285 ..... $9.95

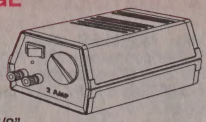
GROUND FAULT CIRCUIT INTERRUPTER



Mfg. - LEVITON
Mfg.# - 6590-I
2 pole, 3 wire grounding
125V AC, 20 amp feed-through rating. Ivory color. Fits standard outlet box and requires a Leviton Decora® wall plate.

60-374	Ivory	$5.95

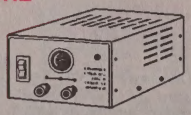
MULTI VOLTAGE REGULATED POWER SUPPLY



5-1/4" x 2-5/8" x 3-7/8"
Input: 117 VAC, 60 Hz
Output: **3, 4.5, 6, 7.5, 9, and 12 VDC @ 100-2000 mA**
Regulated and fused power supply features on/off rocker switch on LED light indicator. Output via dual color coded binding posts.

40-183.....**$17.95**

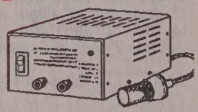
CELLULAR PHONE REGULATED POWER SUPPLY



Mfg. - EMCO
Input: 117 VAC, 60 Hz
Output: 13.8 VDC 4 amp constant
5 amp surge
Regulated supply with constant charging power for portable cellular telephones and other equipment. Output via cigarette receptacle or two color code binding posts. Electronic overload protection with instant automatic reset.

2-3/4" x 4-3/4" x 7-3/4", 5 lbs
PSR-4C.....**$29.95**

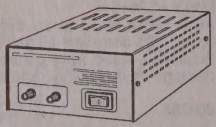
13.8 VDC 3 AMP NON-REGULATED POWER SUPPLY



Mfg. - EMCO
Input: 117 VAC
3 amp constant, 5 amp surge filtered output. Features fuse and auto reset circuit breaker overload protection. Cigarette lighter adapter included.

2-3/4" x 4" x 7-1/2", 4 lbs
PS4CL.....**$19.95**

13.8 VDC REGULATED POWER SUPPLY



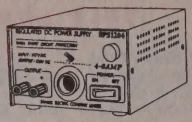
Mfg. - EMCO
Input: 117 VAC, 60 Hz
Regulated and filtered. Features fuse and auto reset circuit breaker. Overload protected. Output via dual binding posts.

4 AMP CONSTANT, 6 AMP SURGE
2-5/8" x 4-1/4" x 7-1/2", 5 lbs
PSR-4.....**$26.95**

7 AMP CONSTANT, 9 AMP SURGE
3-3/4" x 6-1/4" x 7-5/8", 7 lbs
PSR-7.....**$48.95**

10 AMP CONSTANT, 12 AMP SURGE
4-1/2" x 6-1/2" x 7-3/4", 10 lbs
PSR-10.....**$63.95**

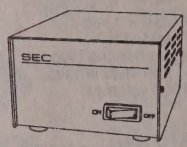
CELLULAR PHONE REGULATED POWER SUPPLY



Mfg. - SAMLEX
Mfg.# - RPS-1204
Input: 117 VAC
Output: 13.8 VDC, 4 amps continuous
6 amps surge
Features external 1 amp fuse, illuminated on/off switch, color coded binding posts and lighter plug output terminals. Electronically protected for short circuit, overload, over voltage and over current.

3-1/2" x 5-1/8" x 7-5/16", 5-1/2 lbs
40-196.....**$29.95**

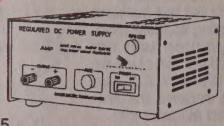
13.8 VDC 8 AMP REGULATED POWER SUPPLY



Mfg. - SAMLEX
Mfg.# - SEC II
Input: 117 VAC
Output: 13.8 VDC, 8 amps continuous
11 amps surge
Features external 1 amp fuse, illuminated on/off switch, color coded binding posts output terminals. Electronically protected for short circuit, overload, over voltage and over current.

4" x 5-5/8" x 8-13/16", 8-3/16 lbs
40-197.....**$49.95**

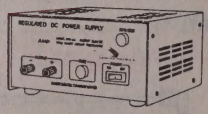
13.8 VDC 15 AMP REGULATED POWER SUPPLY



Mfg. - SAMLEX
Mfg.# - RPS-1215
Input: 117 VAC
Output: 13.8 VDC, 15 amps continuous
20 amps surge
Features external 5 amp fuse, illuminated on/off switch, color coded binding posts output terminals. Electronically protected for short circuit, overload, over voltage and over current.

4-13/16" x 9-5/8" x 9-1/8", 16 lbs
40-198.....**$84.95**

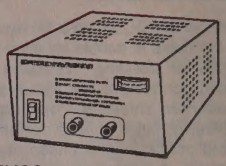
13.8 VDC 20 AMP REGULATED POWER SUPPLY



Mfg. - SAMLEX
Mfg.# - RPS-1220
Input: 117 VAC
Output: 13.8 VDC, 20 amps continuous
25 amps surge
Features external 5 amp fuse, illuminated on/off switch, color coded binding posts output terminals. Electronically protected for short circuit, overload, over voltage and over current.

4-13/16" x 9-5/8" x 10", 18-1/2 lbs
40-199.....**$99.95**

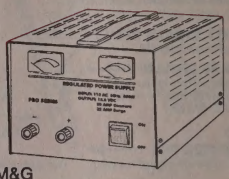
13.8 VDC 18 AMP REGULATED POWER SUPPLY



Mfg. - EMCO
Input: 117 VAC, 60 Hz
Output: 13.8 VDC, 18 amp constant
20 amp surge
Regulated and filtered. Amps meter. Features fuse and auto reset circuit breaker with overload protection. Lighted rocker switch. Output via dual binding posts.

4-3/4" x 7-3/4" x 11-3/8", 16 lbs
PSR-18.....**$99.99**

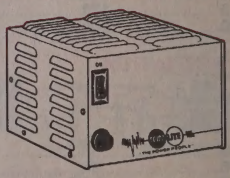
13.8 VDC 30 AMP REGULATED POWER SUPPLY



Mfg. - M&G
Input: 110 VAC, 60 Hz
Output: 13.8 VDC, 30 Amp constant
32 Amp surge
Regulated and filtered. Features fuse and short circuit protection with auto reset. Built in voltage surge protection along with lighted rocker switch. Output via dual binding posts.

5-3/4" x 7-3/4" x 11-5/8", 22 lbs
40-168.....**$139.95**

HIGH CURRENT 13.8 VDC REGULATED POWER SUPPLY



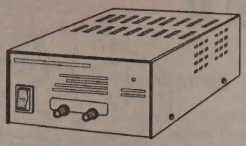
Mfg. - TRIPPLITE
6-3/4" x 10-1/2" x 11-1/2"
Input: 120 VAC, 60 Hz
Regulated and filtered. Features fuse and crowbar over voltage protection. Illuminated ON/OFF rocker switch. Output via lug posts.

32 amp constant
40 amp surge
PR40.....27 lbs.....**$169.95**

37 amp constant
50 amp surge
PR50.....30 lbs.....**$204.95**

48 amp constant
60 amp surge
PR60.....33 lbs.....**$264.95**

24 VDC REGULATED POWER SUPPLY

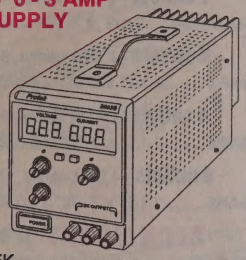


Mfg. - EMCO
nput: 117 VAC, 60 Hz
Regulated and filtered. Features fuse and auto eset circuit breaker overload protection. Output via dual binding posts.

2 AMP CONSTANT, 2.5 AMP SURGE
3" x 4-3/4" x 8-1/2", 5 lbs
40-162.....$39.95

4 AMP CONSTANT, 5 AMP SURGE
4-1/2" x 6-3/4" x 8-1/2", 9 lbs
40-163.....$47.95

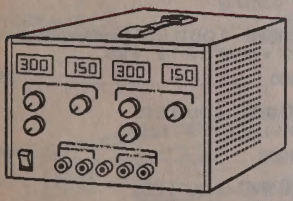
0 - 30 VDC 0 - 3 AMP POWER SUPPLY



Mfg. - PROTEK
Mfg.# - 3003
2-1/8" x 4-3/4" x 5-3/4"
20 VAC input, 11 lbs
High quality DC power supply featuring a nique power saving design for cooler and nore efficient operation. Two separate LED isplays, green readout for voltage and red eadout for current, gives positive set-up val-es. Continuously variable with LED indicators ignaling either constant operational mode. Good line, load regulation plus low noise and pple. Mfg. 2 year warranty.

003.....$234.95

DUAL DC POWER SUPPLY

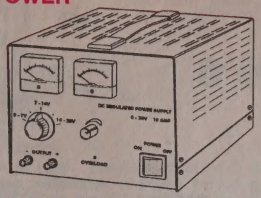


Mfg. - PROTEK
Mfg.# - 3015
4.2" x 9.1" x 6.3"
20 VAC input. Supplies two independent outputs each 0 to 30 VDC @ 0 to 1.5 amp. Each upply can operate series or parallel in either a lus or minus mode. Has four LED readouts ith the voltage indicators in green and the two urrent indicators in red for positive set up dentification. 2 year Mfg. warranty.

015.....$399.95

ADJUSTABLE 0-20 VDC 10 AMP POWER SUPPLY

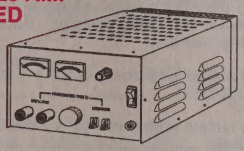
Back in Stock!



Mfg. - MG
8" x 6" x 11", 21 lbs
Input: 117 VAC, 60 Hz, 6 amp
Output: 0-20 VDC in three ranges selectable by a switch 0-7 VDC, 7-14 VDC and 14-20 VDC at max 10 amp. This regulated and filtered linear power supply features a lighted On/Off rocker switch, short circuit, fused and overload protection. .1% load regulation. Output via dual color coded binding posts. It also has a 0-10 amp meter and a 0-20 volt meter along with a fine adjustment knob and an LED overload indicator. Convenient carrying handle.

40-173.....$149.95

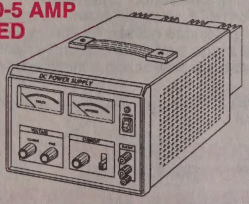
0-15 VDC 25 AMP REGULATED POWER SUPPLY



Mfg. - ZURICH
9-1/4" x 8-3/4" x 5-3/8", 20 lbs
Input: 117 VAC, 60 Hz
Output: 0-15 VDC fully adjustable
25 Amp constant, 30 Amp peak
This regulated supply features lighted on/off rocker switch, fused protection, current and voltage meters ranging from 0-40 amps, 0-20 volts. Outputs via: binding posts (30 amp max), lighter socket (10 amp max) and spring clip terminals (6 amp max).

40-166.....$199.95

0-30 VDC 0-5 AMP REGULATED POWER SUPPLY

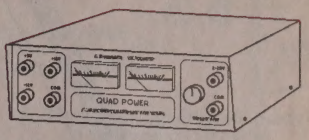


Mfg. - EMCO
Mfg.# - PSV-5
6-1/4" x 8-1/2" x 10", 16 lbs
- Input: 117/220 VAC, 60 Hz
- Output: 0-30 VDC, 0-5 amp regulated
- Dual panel meters: Volts & amps
- Dual scale amp meter 0-3 & 0-6
- Coarse & fine voltage adjustment
- Hi-Lo current switch with Min/Max control
- Overload & short circuit protection
- Low ripple 0.5 mV RMS
- Heavy duty 3 prong IEC (removable) power cord
- Single output heavy duty binding posts for (+) (-) & ground

This compact versatile unit features a handle, an on/off indicator and easy access fuse holder.

40-116.....$249.95

REGULATED QUAD OUTPUT POWER SUPPLY

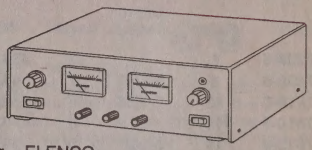


Mfg. - ELENCO
Output #1: +5 VDC @ 3 amp
Output #2: +12 VDC @ 1 amp
Output #3: - 12 VDC @ 1 amp
Output #4: 2.5 to 20 VDC, 2 amp @ 15 VDC
This linear solid state DC supply contains full regulated metered outputs, three fixed and one variable. All outputs, fixed and variable feature short protection; 0.05 VDC line regulation and 0.005 VDC ripple max RMS. Volt and amp meter for monitoring variable output. Complete with schematic.

40-100.....9-1/4" x 8-1/4" x 3-1/2".....$69.95

0-40 VDC @ 1.5 AMP 0-20 VDC @ 3 AMP

Regulated

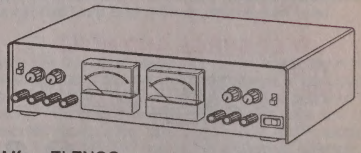


Mfg. - ELENCO
10-1/2"(L) x 10"(W) x 3-3/4"(H), 18 lb
120/240 VAC input
Selectable variable outputs:
0-40 VDC @ 1.5 amp
0-20 VDC @ 3 amp
All outputs are isolated and can be connected in series. Analog volt & amp meters. Short circuit and overload protection. Low noise and ripple. Outputs via binding posts.

40-191.....$149.95

5 VDC @ 5 AMP & DUAL 0-20 VDC @ 1 AMP

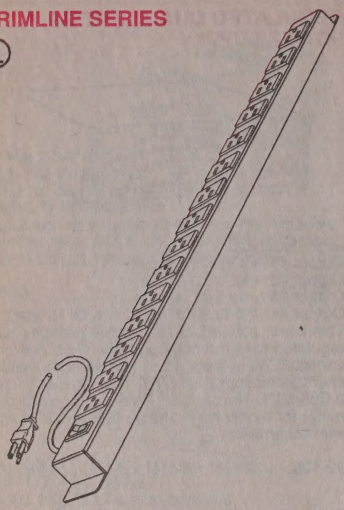
Regulated



Mfg. - ELENCO
14"(L) x 8"(W) x 3-1/2"(H), 18 lb
120 VAC input
Three fully regulated outputs:
5 VDC @ 5 amp and two are 0-20 VDC @ 1 amp. All three are isolated from each other so they can produce 45 VDC @ 1 amp. Dual function volt & amp meters. Short circuit and overload protection. Low noise and ripple. Output via binding posts.

40-192.....$199.95

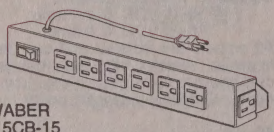
TRIMLINE SERIES



Mfg. - SL WABER
15 amp, 125 VAC, 60 Hz, 1875 W continuous duty "U" grounded outlets, resettable circuit breaker, lighted master switch and a 6ft 14/3 SJT cord.

Part#	Outlets	Outlet Centers	Length	Price
UL7208-6	8	-	2'	$39.95
UL7408-6	8	5-3/4"	4'	46.95
UL7415-6	15	2-7/8"	4'	58.95
UL7610-6	10	7"	6'	58.95
UL7619-6	19	3-1/2"	6'	69.95

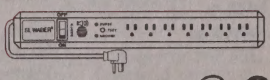
HEAVY DUTY OUTLET STRIP



Mfg. - SL WABER
Mfg.# - UL15CB-15
13-1/4" x 2-3/8" x 1-1/2"
Features circuit breaker, 15ft 14/3 SJT cord/molded plug and "U" grounded outlets. 7 outlets with lighted master switch. Max rating: 15A / 125 VAC, 1875 watts continuous. Seamless steel case with baked-on finish.

UL15CB-15.....**$14.95**

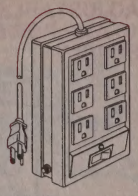
7 OUTLET SURGE AND NOISE POWER STRIP

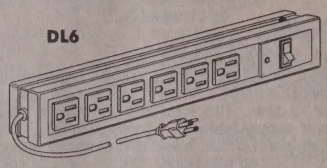


Mfg. - SL WABER
Mfg.# - DG7SA
15-5/8" x 2-1/4" x 1-1/8"
7 switched, grounded outlets, full line protection, EMI/RFI noise rejection, resettable 15 amp circuit breaker, audio & visual surge indicator, <1 nano second response, UL1449 rating, high impact thermoplastic, 6ft grounded cord, master lighted on/off switch, mounting holes on back, backed by lifetime Mfg warranty

60-313.....**$16.95**

SURGE SENTRY® EQUIPMENT PROTECTOR DS6



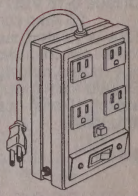


The best protection you can buy for your electronic equipment. Features 8 exclusive patented 3-stage noise and surge protection, UL 1449 & CSA listed, <1 picosecond response time and protection status indicator. Combination of avalanche diodes for speed in response to a surge, a gas tube for its ability to handle large surges and MOVs for their ability to provide speed and longevity. Master on/off switch and circuit breaker. Backed by lifetime mfg. warranty.

6 outlets w/6ft cord • 6-1/2" x 4-1/4" x 2"
DS6.....**$29.95**

6 outlets w/6ft cord • 13" x 2-1/8" x 2-1/4"
DL6.....**$39.95**

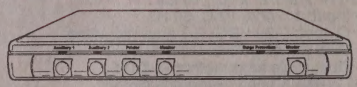
4 OUTLET SURGE SENTRY® FOR HARD DISK PROTECTION



Mfg. - DSD
6-1/2" x 4-1/4" x 2"
Surge Sentry® with CrashGard™ hard disk protection is the only way to get total protection against all forms of electrical power corruption. Features 4 grounded outlets, 6ft cord, exclusive patented 3 stage protection, circuit breaker, protection status indicator and a lifetime warranty.

60-292.....**$24.95**

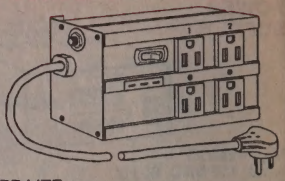
SURGE SUPRESSOR POWER CENTER
With Phone/Fax/Modem Protection



Mfg. - UNIVERSAL
13-1/2" x 13" x 1-1/2"
- Full surge protection
- 6ft phone/fax/modem cord
- EMI/RFI noise filters
- 4 individually lighted controls
- Master switch / surge indicator LEDs
- Resettable circuit breaker
- 6ft power cord

71621.....**$19.95**

ISOBAR SURGE PROTECTION



Mfg. - TRIPP LITE
The most advanced surge suppressor available. Isolated filter banks prevent connected equipment from interfering with each other. "Cascade" circuitry increases noise protection for sensitive devices. Current surges up to 13,000 amps are suppressed in less than 5 nanoseconds. Full MOV protection Hot-Neut., H-G, & N-G. Lifetime mfg. Gold Seal Warranty covers ISOBAR and connected equipment for life. Only surge suppressor with two UL listings UL1449 and UL283.

2 outlets - 2 filter banks, 6 ft cord
ISOBAR2-6.....2-1/2" x 3-1/2" x 5-1/2".....**$29.95**

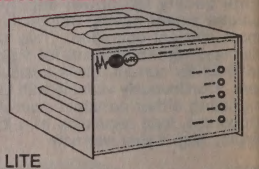
4 outlets - 2 filter banks, 6 ft cord
IBAR4.....2-1/2" x 3-1/2" x 6-1/2".....**$44.95**

6 outlets - 3 filter banks, 6 ft cord
IBAR6.....2-1/2" x 3-1/2" x 8-1/2".....**$55.95**

8 outlets - 4 filter banks, 15 ft cord
IBAR8.....2-1/2" x 3-1/2" x 9-1/2".....**$69.95**

RACK MOUNT - 12 outlets
IBAR12.....1-3/4" x 4" x 19".....**$99.95**

LINE CONDITIONERS



Mfg. - TRIPP LITE
Line conditioners keep you working through brownouts and overvoltages. Automatically adjusts incoming AC from 87 to 140 volts. Built in surge suppression and noise filtering. 2 year mfg. warranty.

600 watt - 2 OUTLETS (undervoltage only)
5-1/2" x 6-1/2" x 3-1/2", 8 lbs
LS600.....**$89.95**

1200 watt - 4 OUTLETS
6" x 7-1/4" x 3-5/8", 12 lbs
LC1200.....**$159.95**

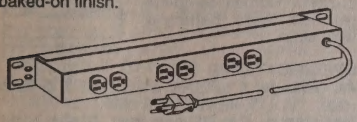
1800 watt - 6 OUTLETS
9" x 8-1/2" x 5", 17 lbs
LC1800.....**$219.95**

2400 watt - 6 OUTLETS
5-1/4" x 7-3/4" x 7", 16 lbs
LC2400.....**$259.95**

RACK MOUNT
2400 watt - 14 OUTLETS
5-1/4" x 19" x 5", 24 lbs
LCR2400.....**$349.95**

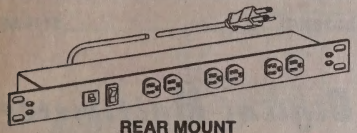
6 OUTLET RACK MOUNT POWER STRIPS

Mfg. - SL WABER
Back Cover: 17"(L) x 3-5/8"(W) x 2-3/8"(D)
Mounting centers 18-1/4" x 1-1/4"
Unit fits standard 19" rack enclosure. Features 6 "U" grounded outlets, resettable circuit breaker, lighted master switch with built-in pilot light on front cover. 15A, 125V, 60Hz, 1875W continuous duty. Heavy duty steel case with black baked-on finish.



FRONT MOUNT
6ft 14/3 SJT cord

911CB.....$39.95



REAR MOUNT
15ft 14/3 SJT cord

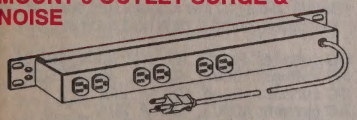
903CB-15.....$39.95

RACK MOUNT OUTLET STRIP WITH RIGHT ANGLE RECEPTACLES

Mfg. - SL WABER
Front: 19" x 1-23/32
Back: 17" x 1-11/16" x 2-3/8"
Mounting: 18-1/4" x 1-1/4"
New design for racks, enclosures, desks, cabinets, oversized and right angle plugs such as transformers and chargers. 911CBRA offers instant power distribution from back of unit. Fits standard 19" rack enclosures. 15A/125VAC, 60 Hz, 1875 watts continuous duty. Outlets: 6 "U" ground. Steelcase with master switch/pilot on front panel. Circuit breaker protection. 15ft, 14/3 cord.

911CBRA-15.....$54.95

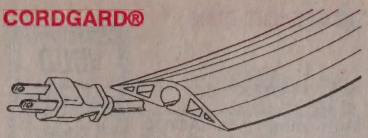
DATAGARD® FRONT RACK MOUNT 6 OUTLET SURGE & NOISE



Mfg. - SL WABER, #DG315R
Back Cover: 17"(L) x 3-5/8"(W) x 2-3/8"(D)
Mounting centers 18-1/4" x 1-1/4"
Unit fits standard 19" rack enclosure. Features 6 "U" grounded outlets, resettable circuit breaker, lighted master switch with built-in pilot light and a 6ft 14/3 SJT cord. 15A, 125V, 60Hz, 1875W continuous duty. Designed for large offices and industrial application where noise is a critical factor. Heavy duty steel case with black baked-on finish.

DG315R.....$77.49

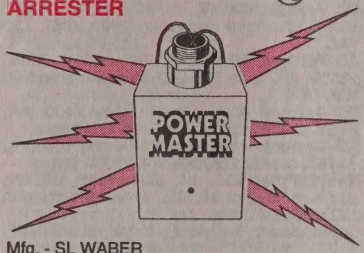
CORDGARD®



Mfg. - SL WABER
3" wide beige vinyl. Electrical cord duct, pre-split for easy installation of power cords up to 1/2" in diameter to prevent tripping over cords and cables. Easily trimmed to any length or angle, double-face adhesive and ribbed slots provide secure placement.

G-6-BE.....$13.49
G-15-BE.....$23.49

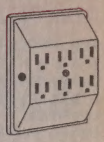
WHOLE HOUSE SURGE ARRESTER



Mfg. - SL WABER
Rated 15 amp, 120/240 VAC, 60 Hz. Absorbs a maximum of 26,500 amp surge current. Designed to be "hardwired" into house circuitry and mounts easily on the circuit breaker panel box. Protects all your houshold electrical equipment from transient voltage surges which enter via the main power supply line. 3 years mfg. warranty.

75-198.....$59.95

6 OUTLET WALL PLUG-IN

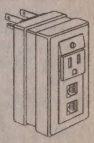


Mfg. - SL WABER
4-3/4" x 3-1/4" x 1-1/4"
5 year mfg. warranty.

SURGE/NOISE/TELEPHONE (RJ-11)
6ft telephone cord included
60-291.....$3.95

SURGE/NOISE/CABLE
6ft coax cable included
60-294.....$3.95

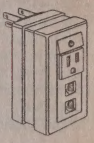
DATAGARD® FOR TELEPHONE LINE PROTECTION



Mfg.# - FG1
2" x 2" x 4-1/2"
Plug in type with one grounded AC outlet and two protected RJ-11 phone jacks. Visual surge indicator. Includes a 6ft phone cord. Backed by lifetime mfg. warranty.

60-295.....$4.95

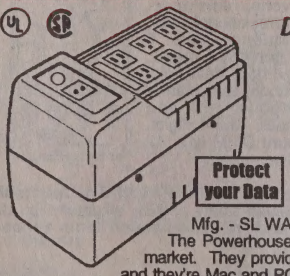
SURGE SENTRY® FOR TELEPHONE LINE PROTECTION



Mfg. - DSLP, 4-1/2" x 2" x 2"
Plugs directly into wall outlet with one grounded AC outlet and two protected RJ-11 phone jacks. Three stage surge circuitry plus RFI/EMI noise filtering. Features circuit breaker and protection status indicator. Includes 6ft phone cord. Backed by lifetime mfg. connected equipment warranty.

DSLP.....$19.95

POWERHOUSE™ UPS SYSTEM



Don't be left in the dark during blackouts!

- ***On-board computers automatically self-test internal circuitry and load***
- ***Faster recharge time than most UPS systems, just 2 hours and you're ready to go***
- ***Field replaceable batteries supply 5 minutes of back-up at full load and 14 minutes at half load***

Mfg. - SL WABER
The Powerhouse UPS systems are the most advanced power back-ups on the market. They provide clean power to your computer during blackouts or brownouts, and they're Mac and PC compatible. They detect failures and transfer that power to the field-replaceable battery (included) within 4 milliseconds. This gives you vital time to save data and shut down. Each unit offers both UPS and surge-only protected receptacles. 450 Joule rating, 400V clamping voltage. 120 VAC, 12 amp, 60 Hz input. 6ft power cord. 2 year/$25,000 connected equipment guarantee.

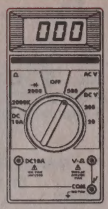
Part#	Rating/Max Power Capacity	Max. Current Capacity	Back-up Outlets	Surge-only Protected Outlets	Weight	Price
PH250	250VA/170W	2.1A	2	2	7 lbs	$99.95
PH500	500VA/340W	4.2A	4	2	12 lbs	139.95

TELEPHONE/MODEM PROTECTION

Advanced solid-state modem line protection with RJ-11 phone line connections. Ideal for typical network stations and stand-alone computer systems with modems.

PH280T	280VA/170W	2.3A	2	2	7 lbs	$149.95
PH550T	550VA/340W	4.6A	4	2	12 lbs	164.95

3-1/2 DIGIT DMM



Mfg. - PROTEK
6" x 3" x 1-1/3"
Safety yellow compact case has a single rotary knob. Built-in overloaad protection and a low battery indicator. Supplied with safety probes, 9V battery and 15 page instruction manual.

SPECIFICATIONS:
DC Voltage: 20V and 200V; acc. ±.7%; input overload protection 200 VDC or AC peak.
AC Voltage: 500V; acc. 1.2%; input overload protection 500 VDC and/or AC peak.
DC Current: 10 amp; acc. ±1.5%; input overload up to 12 amp for 12 seconds max.
Resistance (ohms): 2000 ohm and 2000k ohm; acc. ±1.5%; resolution 1 ohm.
Diode Test: Test voltage 2.8V; test current 3 mA.
90 day mfg. warranty.

D-906.....**$26.95**

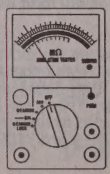
3-1/2 DIGIT POCKET DMM

Mfg. - PROTEK
4" x 2-5/8" x 1/2"
Full auto ranging for all functions. Rear case has probe and cable keeper for storage. Has data hold, diode test and audible continuity buzzer. Uses two "AAA" batteries (included), LCD with large easy-to-read digits. Single rotary knob for all functions.

SPECIFICATIONS:
DC Voltage: 200mV, 2V, ±0.75%, 20V, 200V, 500V ±1%; overload protection 700 VDC and/or AC peak.
AC Voltage: 2V, 20V, 200V, 500V ±1.2%; frequency response 50 Hz to 500 Hz; overload protection 700 VDC and/or AC peak.
AC/DC Current: 200mA ±2%; overload protection 0.2A/ 250V fuse.
Resistance: 200 ohm, 2K ohm, 20K ohm, 200K ohm, 2000K ohm, 20M ohm ±1%; overload protection 250 VDC and/or AC peak.
Continuity: Audible beeper will sound if resistance is less than 500 ohm.
Diode Test: Test voltage 1.5V, measures the diode cut-in voltage.
90 day mfg. warranty.

D-930A.....**$32.95**

ANALOG INSULATION TESTER



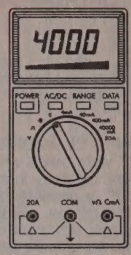
Mfg. - PROTEK
Mfg.# - A-2500I
4" x 6" x 1-3/4"
3-1/2" mirror meter scale. Extra rugged plastic case with tilt stand comes complete with test leads and battery. Continuous measurements can be made using the "Measurement Lock" position.

SPECIFICATIONS:
AC Voltage: 0 to 300V (±5% scale)

MEG OHM METER:
Range: 0 to 200M ohm ±3% of scale; terminal voltage 500V ±10%

A-2500I.....**$44.95**

3-3/4 DIGIT DMM

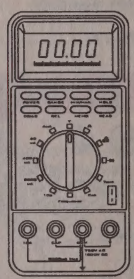


Mfg. - PROTEK
6" x 3" x 1-1/2"
Auto ranging for AC/DC voltage, resistance and capacitance with 5 AC/DC current ranges. Has range select and hold, data hold, continuity beeper, diode test and auto power "off", 3-3/4 digit display, 42 segment bargraph and annunciators. Over range indication: Leading digit flashes. Max. common mode voltage: 850 VDC or peak AC. Batteries, probes & manual included.

SPECIFICATIONS:
DC Voltage: 400mV, 4V, 40V, 400V, 1000V, ±0.3%, overload protection 1000 VDC, 750 VAC.
AC Voltage: 400mV, 4V, 40V, 400V, 750V, ±1.2%, 40 Hz to 500 Hz, overload protection 1000 VDC.
DC Current: 4mA, 40mA, 400mA, 4000mA, ±0.5% overload protection 4A/ 250 V fuse.
AC Current: 4mA, 40mA, 400mA, 4000mA, ±0.75% overload protection 4A/250V fuse.
Resistance: 400, 4K, 40K, 400K, 4000K, ±0.5%, 40M ohm ±0.75%, overload protection 250 VDC or AC rms.
Capacitance: 4nF, 40nF, 400nF, ±0.5%; 4µF, ±0.75%; 40µF, ±2%, resolution 1 pF.
Continuity: Buzzer sounds if resistance is ≤40 ohm.
Diode Test: Test voltage 3.4V max.
2 year mfg. warranty.

D-927.....**$64.95**

3-3/4 DIGIT HIGH CAPABILITY DMM



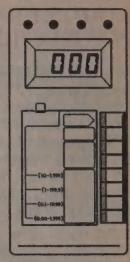
Mfg. - PROTEK
Full auto ranging for AC/DC volts, resistance, temperature, capacitance, and frequency plus 5 AC/DC current ranges. Has range hold, data hold, relative mode, data memory, auto power "off" and diode check. 3-3/4 digits, 4000 count DMM with 42 segment bar-graph.

Supplied with protective heavy duty holster/tilt stand, deluxe safety probes, alligator clip, 9V battery and "K" type beaded temp sensor probe.

SPECIFICATIONS:
DC Voltage: 400mV, 4V, 40V, 400V, 1000V ±.3%
AC Voltage: 4V, 40V, 400V, 750V ±1.2%
AC/DC Current: 4mA, 40mA, 400mA, 4000mA, 10A ±2%
Resistance: 400, 4K, 40K, 400K, 4M, 40M ohm.
Capacitance: 4nF, 40nF, 400nF, 4µF, 40µF ±5%
Frequency: 100 Hz, 1000 Hz, 10 KHz, 100 KHz, 1000 KHz
Temperature: 0°F (-20°c) to 2000°F (1370°c)
Diode Test: Test voltage 3.2V max.
2 year mfg. warranty.

D-981.....**$104.95**

DIGITAL INSULATION TESTER



Mfg. - PROTEK
Mfg.# - DI-2000M
7-1/2" x 4" x 1-3/4"
3-1/2" digit LCD read out. Continuity check with buzzer. Comes complete with test leads, battery & wrist strap.

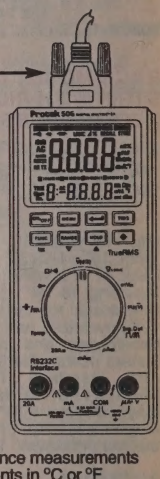
SPECIFICATIONS:
AC Voltage: 0 to 200V (resl. .1V) 0 to 750V (resl. .1V) ±1% input Z = 4M ohm
Resistance: 0 to 200 ohm (resl. .01ohm ±1%)

MEG OHM METER:
Range: 2M, 20M, 200M, 2000M ohm ±2%

DI-2000M.....**$114.95**

THE NEXT GENERATION *Digital Multimeter*

RS-232 Interface



- ***3-3/4 digit***
- ***4000 count***
- ***Auto ranging dual display with 10 MHz frequency counter and built-in signal generator***

Mfg. - PROTEK
- RS-232 interface and software for downloading a display reading to a PC
- True RMS AC voltage and current measurements
- Capacitance and inductance measurements
- Temperature measurements in °C or °F
- Logic probe function
- Decibel measurement
- Min, Max, Avg and relative mode
- Time mode with alarm, clock and stopwatch
- Backlit display for low ambient light applications
- 10 location memory, data hold and run mode

DC voltage: 400mV, 4V, 40V, 400V, 1000V
AC voltage: 400mV, 4V, 40V, 400V, 750V
DC current: 400uA, 400mA, 20A
AC current: 400uA, 400mA, 20A
Resistance: 400, 4K, 40K, 400K ohm
Frequency range: 10KHz, 100KHz, 1MHz, 10MHz
Temperature: -17°C to 1200°C, 0°F to 2000°F
Capacitance: 0 to 100µF
Inductance: 0 to 100H
Time: 1 sec. to 10 hrs

Accessories
Test leads, operating manual, 9V battery (installed), holster, temperature adapter, type "K" temperature probe, RS-232 cable and software.

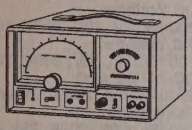
D-506.....**$179.95**

SOLID STATE RF SIGNAL GENERATOR

Mfg. - EMCO
6" x 10" x 5-1/2", 5-1/2 lbs
Input: 117V AC/220V AC
RF output: 100 mV rms
Frequency: 100 kHz-150 MHz in 6 ranges
(up to 450 MHz on third harmonics).
Dial accuracy is ±3%, output level control with hi-lo switch and fine adj. control. Modulation is 1 kHz internal, 50-20 kHz external at </V rms. Crystal socket panel mounted for 1-15 MHz oscillation. Test leads included.

29-107.....**$149.95**

SOLID STATE SINE/SQUARE WAVE GENERATOR

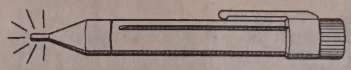


Mfg. - EMCO
6" x 10" x 5-1/2", 5-1/2 lbs
Input: 117V AC/220V AC
Output: Sine 0-7.5 rms high impedance,
0-6.5 into 600 ohms. Square 0-10V p-p high impedance
Frequency: 20-200 kHz square
20 Hz - 2 MHz sine
Wide range audio signal generator with sine and square wave outputs simultaneously. Calibration accuracy is 3% typical, 5% 20-100 Hz and 1 MHz - 2 MHz. Distortion is .25%. Rise time is <.1 microseconds @ 20 kHz. Output attenuation is 0, -20 dB, -40 dB. Test leads included.

29-108.....**$159.95**

FLUKE® VOLT ALERT 1 AC

FLUKE

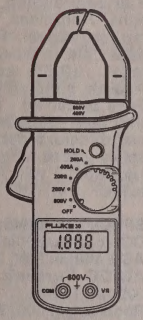


Pocket-sized AC line voltage detector. Easy to use, just touch the tip to an outlet or cord. When the tip glows red, you know there's voltage in the line. Electricians, maintenance, service and safety personnel can quickly test for energized circuits and defective grounds on the factory floor, in the shop or at home. 1 year Mfg warranty.

FLUKE1ACA1.....**$19.89**

FLUKE® MODEL 30 AC CLAMP-ON METER

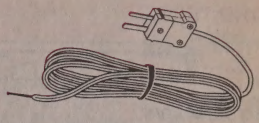
FLUKE



- Measures up to 400 amp AC, 600 VAC, 200 ohm.
- Average AC responding measurements.
- Manual ranging for repetitive measurements.
- Continuity checker.
- Display hold.
- Easy to read 3-1/2 digit 2000 count. digital display.
- Conforms to IEC 1010 safety standard.
- Rugged enough to take a drop from a six foot ladder.
- Includes soft carrying case and Fluke Hard Point™ test leads included.
- One year Mfg. warranty.
- 1.2% accuracy

FLUKE30.....**$106.95**

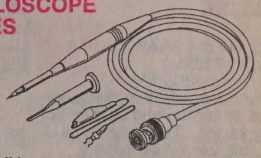
FLUKE BEAD PROBE



General purpose applications, Teflon tape insulation. Not suitable for liquid immersion. Measurement range: -40°F~500°F (-40°C~260°C)

52-126.....**$11.95**

OSCILLOSCOPE PROBES



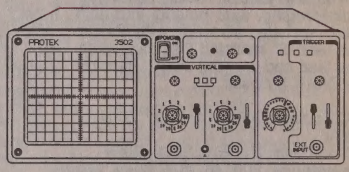
DC to 60 MHz
1:1 switchable 10:1, maximum
Input: 600-Vp-p

PP-80.....**$15.95**

DC to 100 MHz,
10:1, 9M ohm/14 pF,
maximum input 600-Vp-p

PP-150.....**$29.95**

20 MHz DUAL TRACE "AFFORD-A-SCOPE"



Mfg. - PROTEK
5-3/4" x 14" x 17-1/8", 17 lbs
Features component tester for in or out of circuit testing of individual resistors, capacitors, coils & diodes. Includes two probes.

SPECIFICATIONS

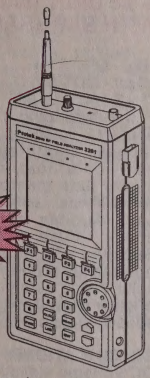
Vertical:
Sensitivity: 5mV - 20V/div, at X5 MAG 1mV -10V/ div
Band Width: DC-20 MHz (-3dB)
AC: 10Hz - 20 MHz (-3dB)
Rise Time: Less than 17.5 nsec
Chop Frequency: ~200 KHz maximum input voltage: 600, Vp-por 300V (DC+AC peak)

Horizontal:
Modes X-Axis: Ch 1 input signal
Y-Axis: Ch 2 input signal
Sweep Mode: Normal, Auto
Sweep Time: 2µ sec - .5 sec/div, 40 nsec - .1 sec/div at X5 MAG
Sweep Magnification: X5 (maximum sweeptime 40 nsec/div

2 year mfg. warranty.

P-3502C.....**$399.95**

3201 HAND HELD RF FIELD STRENGTH ANALYZER



Mfg. - PROTEK
9" x 4" x 1-3/4", 1.4 lb
- Hand held and battery operated
- 100 KHz to 2060 MHz measurement range
- Built in 2GHz frequency counter
- Measures Wide band and Narrow band FM, AM and Single sideband signals
- Phase lock loop for precise tuning and frequency measurement
- RS-232 interface
- Back lit display will shut off 5 sec after the last key depressed
- Audio output and built in speaker
- Detachable antenna included
- Up to 160 channels may be scanned and displayed
- 50 ohms or 75 ohms input impedance
- All functions are menu selected
- Instrument setups and display data may be stored in memory
- Includes software and RS232 cable
- Hard copy printer output of spectrum and bar graph displays
- Serial or parallel interface
- Bar graph display, multi channel (2, 5, 10, 20, 40, 80, 160 bar graphs per display), Single channel and 2 channel difference.
- Auto power off 5, 10, 20 or 30 minutes after the last key depressed - user selected.
- Power: 6 "AA" NiCad batteries, 12 volt car adapter 11V to 16V 400 mA Max. AC to DC adapter.

Built-in 2 GHz Frequency Counter

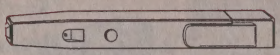
Frequency counter specs:

Bandwidth: 9 MHz to 2060 MHz
Input impedance: 50 ohms
Accuracy: 50 PPM ± 1 count
Data memories: Stores 10 readings

Comes complete with six 1.5V "AA" Nicad batteries, detachable 9" whip antenna, operators manual, RS-232 cable, carrying case, earphone, carrying strap and software. Vehicle power adapter, AC/DC converter.

3201.....**$1974.95**

CORD TESTER



Mfg. - GB
5-5/8" x 3/4" x 3/4"
Tests your extension cords, appliance and lamp cords for breaks. Test holiday light strands for defective bulbs. Easy to use. Red LED test light indicates if a bulb or power cord is defective.

GVD-500.....**$1.99**

ANALOG MULTI TESTER

Mfg. - IT'S A SNAP
Mfg.# - 71231
3-1/2" x 2-3/8" x 1"
4 function - 17 ranges, overload protection and built in battery tester. Test leads included, requires a "AA" battery.

DC Voltage: 10V, 50V, 250V, 500V
AC Voltage: 10V, 50V, 250V, 500V
DC Current: 5 mA, 50 mA, 250 mA
Resistance: 0-1000K (center 5K)
Decibels: -20dB to +56 dB on AC volts
Battery Test: 1.5 VDC

29-112.....**$3.95**

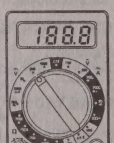
5 FUNCTION 17 RANGE DIGITAL PEN MULTIMETER

Mfg. - GB, #GDT-160
6-3/4" x 1-1/4" x 3/4"
3-1/2 digit LCD display with function and low battery indicator. Rotary pencil type. Auto ranging, auto polarity and data hold. Includes screw-on alligator clip test lead, 3" insulated test lead, safety test lead and carrying case. Requires two "AAA" batteries.

DC voltage: 200mV, 2V, 20V, 200V, 500V
AC voltage: 2V, 20V, 200V, 500V
Resistance: 200, 2K, 20K, 200K, 2000K, 20M ohm
Diode check
Continuity check

GDT-160.....**$14.95**

3-1/2 DIGIT LCD MULTIMETER

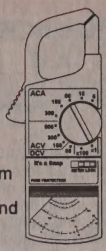


5"(L) x 2-3/4"(W) x 1"(H)
Diode test and hFE test. 3-1/2 digit, 7 segment, .5" high LCD. Maximum common mode voltage 500V peak, better than 1% accuracy. Safety yellow compact case has a single rotary knob. Supplied with removable color coded test leads, 9V battery and manual.

DC voltage: 200mV, 2000mV, 20V, 200V, 1000V
DC current: 200µA, 2000µA, 20mA, 2000mA, 10A
AC voltage: 200V, 750V
Resistance: 200W, 2000W, 20K, 200K, 2000K

9202.....**$12.95**

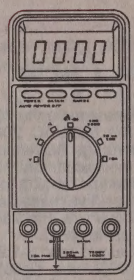
AC CLAMP-ON ANALOG METER



Mfg. - ITS A SNAP
AC voltage: 150, 300, 600 VAC
AC current: 6, 15, 60, 150, 300 AMPS
DC volts: 60 VDC
Resistance: 3K, 300K ohms
Maximum conductor size: 34mm
Powered by type A battery included along with a spare and test leads.

29-117.....**$49.95**

7 FUNCTION AUTORANGING 3-3/4 DIGIT DMM

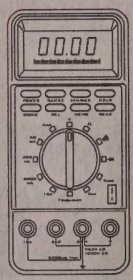


Mfg. - GBT
Mfg.# - GDT-820
7-1/2" x 3-3/4" x 1-1/2"
Full autoranging, 7 functions, 7 positions, 26 measuring ranges. Features data hold to freeze readings. ±2.5% accuracy. Audible continuity check. Fuse protected. Supplied with heavy duty holster/tilt stand, deluxe color coded safety probes, alligator clips and two 1.5 volt "AAA" batteries.

SPECIFICATIONS:
DC Voltage: 300mV, 3V, 30V, 300V, 1000V
AC Voltage: 30V, 300V, 750V
AC/DC Current: 300µA, 3000µA, 30mA, 300mA, 10 amp
Resistance: 300, 3K, 300K, 3M, 30M ohm

GDT-820.....**$29.95**

11 FUNCTION AUTORANGING 3-3/4 DIGIT DMM WITH BARGRAPH

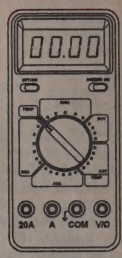


Mfg. - GB
Mfg.# - GDT-830
7" x 3-1/4" x 1-1/4"
Full autoranging 11 functions, 12 positions and 39 ranges. Features range hold, data hold, relative mode, data memory, and diode check. ±5% accuracy. Audible continuity check. Fuse protected. Supplied with heavy duty holster/tilt stand, deluxe color coded safety probes, alligator clips, 9 volt battery and "K" type beaded temperature probe.

SPECIFICATIONS:
DC Voltage: 400mV, 4V, 40V, 400V, 1000V
AC Voltage: 4V, 40V, 400V, 750V
AC/DC Current: 4mA, 40mA, 400mA, 2000mA, 10A
Resistance: 400, 4K, 40K, 400K, 4M, 40M ohms
Capacitance: 4nF, 40nF, 400nF, 4uF, 40uF
Frequency: 10 Hz, 1000 Hz, 10 KHz, 100 KHz, 1000 KHz
Temperature: 0°F to 2000°F, (-20°c) to (1370°c)
Diode Test: Good/Bad up to 3.2V
4000 count bargraph

GDT-830.....**$69.95**

8 FUNCTION 31 RANGE 3-1/2 DIGIT DMM

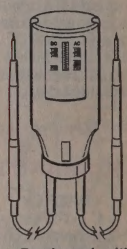


Mfg. - GB
Mfg.# - GDT-192A
7-3/4" x 3-3/4" x 1-1/2"
Rotary selector switch with 31 measuring ranges. 3.5 digit LCD readout. ± 2.5% accuracy. Switchable on/off buzzer for continuity. Fuse protected. Supplied with heavy duty holster / tilt stand, deluxe color coded safety probes, 9 volt battery and "K" type beaded temperature probe.

SPECIFICATIONS:
DC Voltage:
200mV, 2V, 20V, 200V, 1000V
AC Voltage:
200mV, 2V, 20V, 200V, 700V
DC/AC Current:
200µA, 2mA, 20mA, 200mA, 2A, 20A
Resistance:
200, 2K, 20K, 200K, 2M, 20M ohms
Continuity Check
Diode Check
Temperature:
up to 1832° F

GDT-192A.....**$49.95**

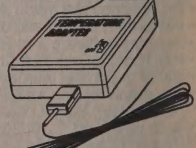
VOLTAGE TESTER



Mfg. - GB
7" x 2-1/4" x 1-1/4"
Voltage ranges:
AC - 120, 240, 480, 600
DC - 120, 240, 600
Solenoid type voltage tester with polarity indication. Dual voltage indication: Solenoid vibration sensing and electronic neon visual indication. Designed with self storing prods which also allow for one hand operation. Retractable, locking, spring loaded shrouds protect metal prod tips. Compact and easy to carry.

GVT-82.....**$19.95**

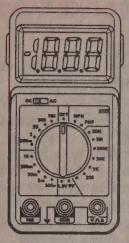
TEMPERATURE ADAPTER



Mfg. - ACTRON for SUNPRO
Makes fast, precise measurements of surface air or liquid temperatures. Use with any digital multimeter with standard 3/4" input jack spacing and a 2-VDC range. Temperature displays on multimeter LCD readout. Measures temperature in °F and °C.

29-129.....**$29.95**

Model 2202
26 RANGE DMM

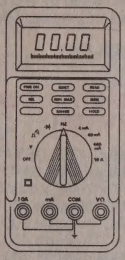


Mfg. - TRIPLETT
5-5/8" x 2-7/8" x 1-1/2"
3-1/2 digit (.87") with max reading of 1999. • DC voltage: 5 ranges 200 mV-1000 VDC • AC voltage: 5 ranges 200 mV-750 VAC • AC/DC current: 200 µA-10 amp • Resistance: 6 ranges 200 W-40 MW • Diode test • Continuity test • Transistor test • Overload protection to 500 volts on resistance ranges • Built in stand.

Powered by 9V battery included. Also includes carrying case, test leads, spare fuse and user manual.

2202.....**$44.95**

Model 4404
34 RANGE DMM

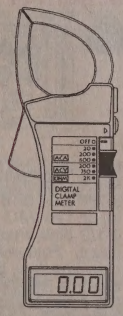


Mfg. - TRIPLETT
7-5/16" x 3-3/8" x 1-1/2"
3-3/4 digit LCD (.55" digits) with a maximum reading of 3999. • 4000 count digital display with analog bargraph • DC volts: 5 ranges with 5% accuracy to 1 KVDC • AC volts: 5 ranges with 1% accuracy to 750 VAC • AC and DC current to 10 amp • 6 resistance ranges • Frequency measurement to 1 Hz to 999.9 KHz with 5% accuracy • 5 capacitance ranges from 4 nF thru 40 µF with 3% accuracy • Diode and continuity tester • Data hold • Auto power off • Data memory and data memory readout • Overload protection to 500V • Built-in stand • One year mfg. warranty.

Includes user manual, test leads, rubber boot, belt clip, spare fuse and 2 "AA" batteries.

4404.....**$109.95**

Model C45
AC CLAMP-ON METER



Mfg. - TRIPLETT
8" x 3" x 1-1/2"
3-1/2 digit high contrast LCD with .5" digits.

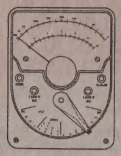
AC Voltage: 200, 750 VAC
AC Current: 20, 200, 600 amp
Resistance: 2K ohm

Max conductor size: 35mm, 3 samples per second, insulation endurance 4000 VAC for 1 minute.

Powered by 9 VDC battery included. Also includes instruction manual, test leads, wrist strap and one year mfg. warranty.

C45.....**$74.95**

Model 310 18 RANGE HANDHELD ANALOG VOM



Mfg. - TRIPLETT
2-3/4" x 1-5/16" x 4-1/4"
The favorite handheld analog VOM for the maintenance and telecommunications field.

DC Voltage: 0-3, 12, 60, 300, 1200 VDC (±3%)
AC Voltage: 0-3, 12, 60, 300, 1200 VAC (±4%)
Resistance: 0-20K, 200K, 2MEG, 20M W (±3%)
DC Current: 600 µA, 6 mA, 60 mA, 600 mA (±3%)
Powered by (1) 12V A23 and (1) 1.5V NEDA# 910 battery included. Also includes 42" safety test leads, screw-on insulated alligator clips and user manual. 3 year mfg. warranty.

310.....**$77.95**

Model 310 accessories:

Carrying case with belt loop
10-2969.....**$9.25**

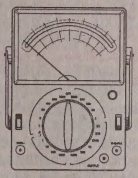
Test lead with pin cushion clip
79-695.....**$16.99**

1.5V "N" size NEDA 910 battery
37-21.....**$1.19**

12V battery Eveready A23
37-60.....(310 series type 6 & 7).....**$1.49**

15V battery
37-22.....(310 series type 5 and earlier).....**$4.89**

Model 6027
RANGE ANALOG VOM



Mfg. - TRIPLETT
3-1/4" x 5-1/4" x 7-1/4"
This newly designed, rugged meter features high-impact safety orange thermoplastic case.

DC Voltage: 0-.3, 1, 3, 10, 30, 100, 300, 1000 VDC
AC Voltage: 0-3, 10, 100, 300, 1000 VAC
DC Current: 100µA, 10mA, 100mA, 1000mA
Resistance: 0-1K, 10K, 100K, 1M, 10MW
Decibels: -20 dBm to +52 dBm
Powered by (1) 9V NEDA 1064 and (1) 1.5 NEDA 13F. Includes 48" safety test leads, screw-on insulated alligator clips, spare 1/8A and 1A fuses and instruction manual. 3 year mfg. warranty.

60.....**$172.95**

Model 60 accessories:

9 volt battery NEDA 1064
37-36.....**$1.19**

1.5 volt battery NEDA 13F
2426-1.....**$ .99**

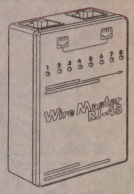
48" safety test leads
79-374.....**$8.89**

BNC CABLE TESTER

Mfg. - TRIPLETT
1" x 2-3/8" x 3-5/8"
Verifies continuity of coaxial cable with BNC connectors, checks for open conductor, open shield or shorts. Four LED's indicate test results. Requires 9V battery. One year mfg. warranty.

3252.....**$34.95**

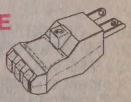
WIREMASTER RJ45 CABLE TESTER



Mfg. - TRIPLETT
Verifies point-to-point wiring of RJ-45 patch cables. Eight LEDs identify the destination of each conductor in cable. Checks for continuity in straight-through wiring. Cable types: AT&T 258A, EIA/TIA T568A or T568B, TP-PMD and any RJ-45 cable. One year mfg. warranty.

29-116.....**$34.95**

E-Z CHECK® PLUS GFI AND RECEPTACLE CIRCUIT TESTER

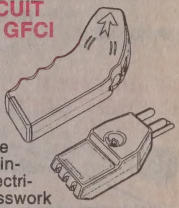


IDEAL

Mfg. - IDEAL
Identifies faults in 3-wire 125V receptacles and tests integrity and operation of GFI protected circuits or outlets. By depressing the black button EZ check plus intentionally overloads the GFI breaker to test its mechanical operation in addition to checking for proper wiring sequence.

61-051.....**$26.95**

E-Z CHECK® CIRCUIT IDENTIFIES WITH GFCI RECEPTACLE TESTER

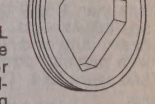


IDEAL

Mfg. - IDEAL
Locate and identify any circuit breaker or fuse protecting energized single phase 120 VAC electrical circuit without guesswork or service interruption. Transmitter checks energized single phase 120 VAC outlets for proper wiring sequence and GFCI operation. Hand-held receiver with adjustable sensitivity level identifies specific circuit breakers or fuses with a flashing LED and audible tone.

61-052.....**$50.95**

S-CLASS® GOLD FISH TAPES



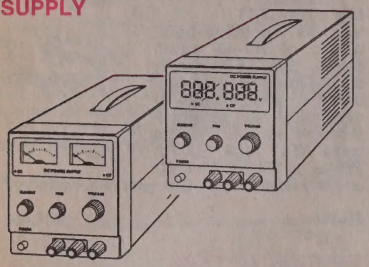
IDEAL

Mfg. - IDEAL
A reinforced IDEAL S-Class® non-conductive fiberglass core with outer nylon coating that is specially designed for working around energized panels, circuitry and telecommunications installations. With leader.
- Nylon-coated fiberglass core
- Specially designed contoured pulling eye
- Slippery outer nylon jacket
- IDEAL S-Grip® S-Class® fish tape puller is an effective non-slip method for gripping and pulling IDEAL S-Class® non-conductive fish tapes
- Five year limited warranty on the eyelet to tape connection

54-228.....50 ft Tape.....**$96.85**
54-229.....100 ft Tape.....**$134.95**

TRIPLETT

0-30 VDC 0-3 AMP REGULATED POWER SUPPLY

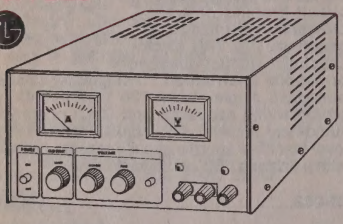


Mfg. - GOLDSTAR/LG PRECISION
10" x 5-1/8" x 5-5/8", 9 lbs
120 VAC input
Compact and lightweight power supply. 0-30 VDC continuously variable output. 0-3 amp current limiting capability. Volt and ampere meter accuracy: ± 1% + 1 digit. Fine and coarse voltage adjustments. Overload protection circuit. Ripple voltage less than 1.5mV p-p. Output via Red and Black heavy duty binding posts. Comes complete with manual, power cord, short circuit bar and spare fuse. One year Mfg. warranty.

ANALOG
GP-4303A.....**$174.95**

DIGITAL
GP-4303D.....**$189.95**

ADJUSTABLE VOLTAGE AND CURRENT REGULATED POWER SUPPLIES



Mfg. - GOLDSTAR/LG PRECISION
120 VAC input
Series and parallel operation. Built-in output current limit circuit. Overload protection circuit. CC/CV indicator. Low ripple voltage less than 1.5mV p-p. Fine and coarse voltage adjustments. Output via Red & Black heavy duty binding posts. Comes complete with manual, power cord, short circuit bar and spare fuse. One year Mfg. warranty.

0-30 VDC @ 0-5 Amp
13-3/4" x 9-3/8" x 5-1/8", 18 lbs

GP-305.....**$274.95**

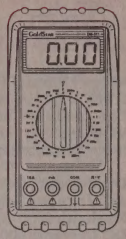
0-50 VDC @ 0-3 Amp
13-3/4" x 9-3/8" x 5-1/8", 18 lbs

GP-503.....**$279.95**

0-50 VDC @ 0-5 Amp
13-3/4" x 9-3/8" x 5-1/8", 24 lbs

GP-505.....**$369.95**

3-1/2 DIGIT 2000 COUNT DIGITAL MULTIMETER



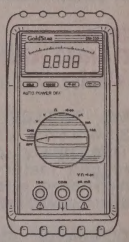
Mfg. - GOLDSTAR
7" x 3-1/4" x 1-1/4", 1-1/2 lbs
Deluxe meter with tilt stand comes in yellow safety holder. Features double insulated input jack, 10A fused with input overload protection, low battery indication.
DC Voltage: 200mV, 2, 20, 200, 1000 VDC
AC Voltage: 200mV, 2, 20, 200, 750 VAC
DC Current: 200µA, 2, 20, 200mA, 10 Amp
AC Current: 200µA, 2, 20, 200mA, 10 Amp
Resistance: 200, 2K, 20K, 200K, 2M, 20M ohm
Diode test, continuity test, battery test. Complete with safety holder, test leads with detachable alligator clips, 9V battery and operators manual. One year Mfg. warranty.

DM-311.....**$42.95**

Same specs above plus:
Capacitance: 2000pf, 200nf, 20µf
Frequency: 20 KHz, 200 KHz
Transistor Test

DM-312.....**$69.95**

3-3/4 DIGIT 3200 COUNT AUTO AND MANUAL RANGE DMM



Mfg. - GOLDSTAR, #DM-333
7" x 3-1/4" x 1-1/4", 1-1/2 lbs
3-3/4 digit, 3200 count with auto and manual range. Features ARC-type 32 segment analog bar graph, 10 minute, auto power off & data hold mode, double insulated input jack, 10 amp fused, input overload protection, internal battery check. One year Mfg. warranty.
DC Voltage: 320mV, 3.2, 32, 320, 1000 VDC
AC Voltage: 3.2, 32, 320, 750 VAC
DC Current: 320µA, 3200µA, 32mA, 320mA, 10 Amp
AC Current: 320µA, 3200µA, 32mA, 320mA, 10 Amp
Resistance: 320, 3.2K, 32K, 320K, 3.2M, 32M ohm
Transistor Test, Continuity test with beeper

DM-333.....**$62.95**

CALL FOR PRICING ON ITEMS MANUFACTURED BY GOLDSTAR/ LG PRECISION THAT ARE NOT ADVERTISED.
800-524-6464

POCKET DMM

Mfg. - GOLDSTAR
Mfg.# - DM-733
4-5/8" x 2-1/2" x 7/8", 3.4 oz
Super slim, lightweight, low cost fit in your pocket - pocket size meter with test leads inside the rear case. 3-3/4 digit, 3200 count with bar graph • Auto ranging with manual ranging override • Auto power off • Continuity check • Diode check • Data hold function • Low battery indicator.
DC Voltage: 300mV, 3, 30, 300, 450VDC ±1.3% rdg ±2 dgt
AC Voltage: 3, 30, 300, 450 VAC ±2.3% rdg ±5 dgt
DC Current: 300µA, 3000µA, 30mA, 300mA ±2% rdg ±5 dgt
AC Current: 300µA, 3000µA, 30mA, 300mA
Resistance: 300Ω, 3K, 30K, 300K, 3M, 30M ohm ±2.5% rdg ±5 dgt
Powered by two LR-44 or SR-44 batteries (included). One year Mfg. warranty.

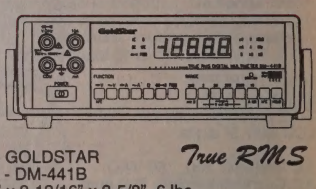
DM-733.....**$29.95**

DIGITAL CLAMP METER

Mfg. - GOLDSTAR
Mfg.# - CM-631D
8" x 2-3/4" x 1-3/8", 1 lb
DC Voltage: 400 VDC
AC Voltage: 600 VDC
AC Current: 400, 600 Amp
Resistance: 400 ohm
3-3/4 digit LCD display, 4000 count. Compact and rugged case. Easy to use tear drop shape jaw (1-1/4" max clamping). Surge and overload protection in all ranges. Data & hold functions. Continuity check with beep sound. Comes complete with manual, test leads, carrying case and 9V battery. One year Mfg. warranty.

CM-631D.....**$78.95**

BENCHTOP DIGITAL MULTIMETER

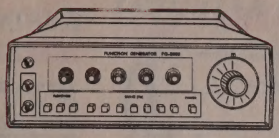


Mfg. - GOLDSTAR
Mfg.# - DM-441B
9-7/8" x 9-13/16" x 3-5/8", 6 lbs
Input: 120 VAC
4-1/2 digit display, 5 digit green LED, 19999 count. Features full overload protection, continuity check w/ beeper. Data hold, diode check and true RMS in AC range.
DC Voltage: 200mV, 2, 20, 200, 1000 VDC
AC Voltage: 200mV, 2, 20, 200, 750 VAC
DC Current: 2, 20, 200mA - .2, 10 Amp
AC Current: 2, 20, 20mA - .2, 10 Amp
Resistance: 200, 2K, 20K, 200K, 2M, 20M ohm
Frequency: 20, 200 KHz
TR hfe base current: 3.5µA, Vce: Approx 4.5V
Diode: Test volt - 4.5V Approx max test current 1mA
Continuity: Throughhold 200 ohm or less.
One year Mfg. warranty.

True RMS

DM-441B.....**$209.95**

2 MHz SWEEP/FUNCTION GENERATORS



Mfg. - GOLDSTAR/ LG PRECISION
10-1/8" x 8-1/4" x 3". 5.6 lbs
Input: 120 VAC
- .02 Hz to 2 MHz in 7 ranges
- TTL/CMOS leveled square wave output
- Linear sweep control from 1:1 to 100:1
- Low distortion factor less than 1% at 10 Hz to 100 KHz
- DC offset control
- 40dB maximum attenuation
- 50 ohm output impedance
- Versatile waveforms: sine, triangle, square, ramp, pulse and saw-tooth
- Variable symmetry to generate saw-tooth and pulse wave forms
- Complete with power cord, BNC cable & manual
- One year Mfg. warranty

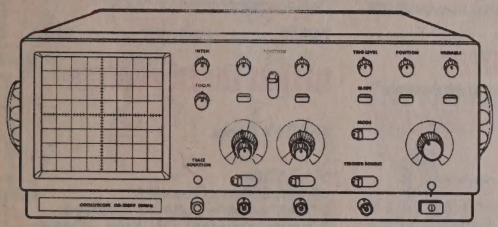
FG-8002 ..... **$174.95**

WITH FREQUENCY COUNTER

Same as above plus: 10" x 10-1/4" x 3-1/8". 4 lbs
- Output impedance switchable: 50 ohm to 600 ohm
- Built-in frequency counter
- 6 digit green LED display
- 2 Hz - 2 MHz frequency range
- 150 VRMS (1 KHz) max input

FG-7002C **$284.95**

OSCILLOSCOPES



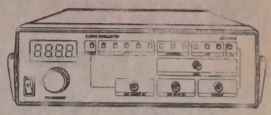
The newest oscilloscopes from Goldstar offer economic choices for high quality. Suitable for use in schools, production, service and maintenance of consumer products. User manual, 2 spare fuses and probe set included.

Common Features:

- 6" rectangular CRT (8 x 10 DIV)
- ***Blue CRT for higher resolutions***
- Ch2 polarity inversion switch
- High-sensitivity X-Y operation
- Vertical gain sensitivity magnifier 5X
- Horizonal sweep time magnifier 10X
- Automatic focus
- TV sync circuit
- Variable hold-off function
- Z-axis (intensity modulation)
- Level control for superior triggering
- Meets IEC-348 safety requirement
- 100V/120V/220V/240V, 50-60Hz, power source
- 2 year Mfg. warranty

Part#	Freq MHz	Trace	Chan	Signal Delay	Alt Trigger	RS232 Interface	Function Generator	Price
OS-3020D	20	DUAL	2	NO	NO	YES	- - -	**$899.95**
OS-5020	20	DUAL	2	NO	YES	NO	- - -	**389.95**
OS-5020G	20	DUAL	2	NO	NO	NO	1 MHz	**489.95**
OS-5040A	40	DUAL	2	NO	NO	NO	- - -	**689.95**
OS-5060A	60	DUAL	2	NO	NO	NO	- - -	**839.95**
OS-8100A	100	8	3	NO	NO	NO	- - -	**1149.95**
OS-5100	100	DUAL	2	YES	YES	NO	- - -	**935.95**

1 MHz AUDIO OSCILLATOR WITH 4 DIGIT FREQUENCY COUNTER



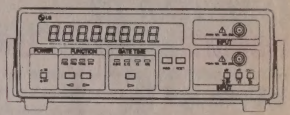
Mfg. - GOLDSTAR/LG PRECISION
9-7/8" x 9-3/16" x 3-1/4". 5 lbs
Input: 120 VAC
Perfect signal source when serving high performance audio instruments. Built in frequency counter can be used as a stand alone or to display the oscillator circuit.

SPECIFICATIONS:
Frequency range: 10Hz - 1MHz in 5 decade steps • **Very low distortion:** Less than .5% • 400Hz and 1KHz fixed functions • **Output voltage:** 8 Vrms (sine wave) • **Switchable input impedance:** 50 to 600 ohm

FREQUENCY COUNTER:
Frequency range: 10Hz - 1MHz • **Max input voltage:** 150 Vrms (1KHz) • **Input sensitivity:** 130m Vrms
Comes complete with power cord, BNC cable, fuse and operations manual. One year Mfg. warranty.

AG-7001C **$224.95**

1.5 GHz FREQUENCY COUNTER

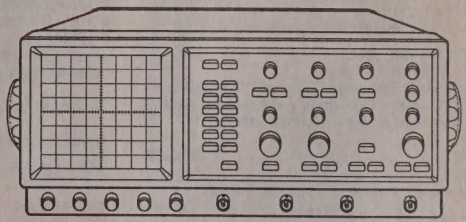


Mfg. - GOLDSTAR, #FC7150
9-7/8" x 9-3/16" x 3-1/4". 5 lbs
Input: 120 VAC
.2 Hz - 1.3 GHz frequency range.
Measure low frequencies at high speed and with high resolution. Microprocessor controlled with self diagnostic routine. Universal functions: slope, trigger, time interval measurement, ratio measurement. Also features: total, RPM and period function • Internal/external time base selectable • Fast, high resolution, 8 digit LED display • Low pass filter • AC/DC coupling.

SPECIFICATIONS:
Frequency range: .2 Hz - 1.3 GHz • **Sensitivity:** Input A = 25mV .2 Hz - 110 MHz, Input B = 30mV 50 MHz - 1.3 GHz • **Gate time:** .01, .1, 1, 10 seconds • **Time base frequency:** 10 MHz (int/ext) TCO • **Stability:** 1 ppm (+/- 1 count). Includes power cord, BNC cable, fuse and manual. One year Mfg. warranty.

FC-7150 ..... **$274.95**

100MHz OSCILLOSCOPES

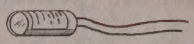


Mfg. - GOLDSTAR/LG PRECISION
- Auto reset function
- Cursor readout
- DC to 100MHz bandwidth
- Dual time base
- HF/LF reject trigger filters
- Delayed sweep function
- 5ns/div fast sweep rate
- Frequency counter function (only on autoset)
- CH1 output
- 400V max. input voltage
- Holdoff function
- ***Blue CRT for higher resolutions***

OS-5100RA ..... 4 Channel / 8 Traces **$1474.95**

OS-5100RB ..... 2 Channel / 4 Traces **$1289.95**

4mW LASER DIODE

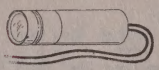


7/16"dia x 11/16"
Operates on 2.8-3 VDC @ 65mA
4mW, Class IIIA

74-433.....**670nm**, 600ft range.....**$21.95**

74-473.....**650nm**, 1500ft range.....**$25.95**

LASER DIODE *with collimating lens*

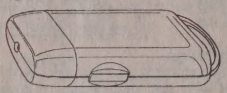


1-1/16"(L) x 5/16" dia
>3.5mW, Class IIIA
3 VDC @ <60 mA max
Adjustable focus

600ft range
75-334.....**670nm**.....**$19.95**

INFINITER 10 WORLD'S *Lightest* LASER

600 Ft Range



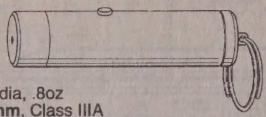
2-1/2" x 1" x 5/8", .7oz
<5mW, **670nm**, Class IIIA
3 LR44 (357) batteries included. 1 hour constant ON time. High-impact lightweight black plastic. With neck-cord.

75-324.....**$9.95**

Replacement batteries, requires 3 each.
357.....(SR44).....**$ .75**

INFINITER 200 LASER POINTER

1600 Ft Range



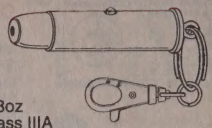
2-1/2" x 5/8"dia, .8oz
<5mW, **650nm**, Class IIIA
3 LR44 (357) batteries included. 3 hours constant ON time. High-quality lightweight aircraft aluminum with a black rubber coating.

75-320.....**$10.95**

Replacement batteries, requires 3 each.
357.....(SR44).....**$ .75**

BULLET LASER POINTER

1600 Ft Range

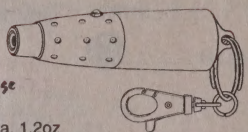


1-3/4" x 7/16"dia, .8oz
<5mW, **650nm**, Class IIIA
3 (192) batteries included.
Solid brass construction with copper color bullet finish. Looks like a 357 magnum caliper.

75-326.....**$8.49**

Replacement batteries, requires 3 each.
L736.....(192).....**$ .35**

LASER "MICRO" POINTER



1600 Ft Range

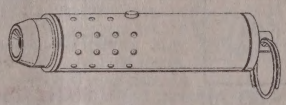
2-1/8" x 5/8"dia, 1.2oz
<5mW, **650nm**, Class IIIA
3 LR44 (357) batteries included. 3 hours constant ON time. Solid brass with elegant brushed chrome finish.

75-325.....**$12.95**

Replacement batteries, requires 3 each.
357.....(SR44).....**$ .75**

LASER "BULLET" POINTER

5 TIMES BRIGHTER THAN STANDARD LASER POINTER

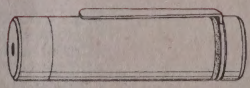


2-1/2" x 5/8"dia, 1.2oz **1600 Ft Range**
<5mW, **650nm**, Class IIIA
3 LR44 (357) batteries included. 3 hours constant ON time. Solid brass with elegant brushed chrome finish.

75-295.....**$19.95**

Replacement batteries, requires 3 each.
357.....(SR44).....**$ .75**

MINI LASER POINTER



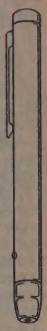
2-3/8" x 9/16"dia, 1.8oz **1500 Ft Range**
<4mW, **650nm**, Class IIIA
3 LR44 (357) batteries included. Solid brass with elegant brushed chrome finish. Pen style clip switch. Includes genuine leather carrying case with belt loop.

75-222.....**$22.95**

Replacement batteries, requires 3 each.
357.....(SR44).....**$ .75**

INFINITER 100 LASER POINTER

1600 Ft Range



5-5/8" x 1/2"dia, 1.6oz
<5mW, **650nm**, Class IIIA
2 "AAA" alkaline batteries included.
6 hours constant ON time.
Quality laser reasonably priced.
Button actuator.

75-321.....Black.....**$15.95**
75-322.....Silver.....**$15.95**

Replacement batteries, "AAA"
7400/2.....Pack of 2.....**$1.25**

INFINITER 100 DUAL DUAL LASER BLINKING & CONTINUOUS

1600 Ft Range

5-5/8" x 1/2"dia, 1.6oz
<5mW, **650nm**, Class IIIA
2 "AAA" alkaline batteries included.
6 hours constant ON time.
Quality laser reasonably priced.
Button actuator.

75-327.....Black.....**$18.95**

Replacement batteries, "AAA"
7400/2.....Pack of 2.....**$1.25**

DELUXE LASER POINTER

1600 Ft Range

5" x 1/2"dia
<5mW, **650nm**, Class IIIA
2 "AAA" alkaline batteries included.
6 hours constant ON time. Deluxe laser pointer pen has an elegant brushed nickel finish over solid brass. Sleek pen size pointer. Pen clip style switch. Comes in a gift box.

75-221.....**$24.95**

Replacement batteries, "AAA"
7400/2.....Pack of 2.....**$1.25**

LASER POINTER BALL POINT PEN

1600 Ft Range

DANGER
LASER RADIATION-AVOID DIRECT EYE EXPOSURE

5-3/4" x 1/2"dia, 1.6oz
<5mW, **650nm**, Class IIIA
3 LR44 (357) batteries included. 2 hours constant ON time. High quality pointer pen is black with gold trim and faux diamond switch. Ink refill included.

75-253.....**$24.95**

Replacement batteries, requires 3
357.....**$ .75**

LASER BRIGHTNESS

670nm - >600ft Range
650nm - >1600ft Range
635nm - >2400ft Range

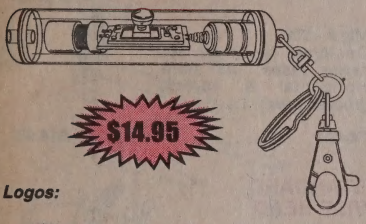
The LASER Source

Our lasers are *SUPER* bright, compact and more powerful than ever. We stock the country's largest selection of lasers at the LOWEST PRICES.

Make Your POINT at the *Speed* of Light!

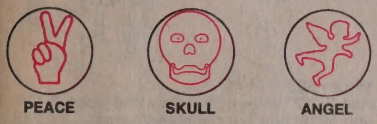
Great for presentations, conferences, school or work. Mystify your neighbors and co-workers. Dogs and cats love lasers. Watch them run in circles and try to capture the laser point.

6in1 *LASER* KEY CHAIN



$14.95

Logos:



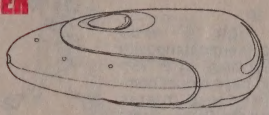
3-1/2" x 5/8" dia
650nm red laser diode encased in a clear high impact plastic case with key ring. Includes 6 different Logo lens: skull, angel, lady, peace, arrow and I Love U. Features four surface mount LEDs, two green and two red that flash while laser is idle. This feature is controlled by on/off push switch which also controls laser beam. Includes 3 LR44 batteries.

75-316.....$14.95

World's Brightest Lasers

Viewable 2400ft!

INFINITER 800 LASER



2400 Ft Range

2-3/4" x 1-3/8" x 1", 2.6oz
<5mW, **635nm**, Class IIIA
1 CR2 lithium battery included.
12 hours constant ON time which is the longest time available. Ergonomically designed die-cast metal construction. Includes genuine leather carrying case with belt loop.

75-323.....$44.95

CR2.....Replacement battery.....$9.95

ULTIMATE LASER POINTER

2400 Ft Range

5" x 1/2" dia.
<5mW, **635nm**, Class IIIA
2 "AAA" alkaline batteries included.
6 hours constant ON time.
Solid brass with satin nickel.

75-223.....$39.95

Replacement batteries, "AAA"

7400/2.....Pack of 2.....$1.25

INFINITER ULTRA SLIM

2400 Ft Range

5" x 3/8"dia, 1.3oz
<5mW, **635nm**, Class IIIA
2 "AAAA" alkaline batteries included.
4 hours constant ON time.
The *slimmest, lightest* and most *elegant* pen type laser pointer in the world.

75-336.....$37.95

Replacement batteries, "AAAA"

E96.....Pack of 2.....$2.95

PHOTON II *Micro-Light II*

1-5/8" x 1" x 1/4"
Visible for more than a mile!
Personal flashlight that is nearly indestructible. Micro size - same size & weight as a quarter. Replaceable ten year lithium battery. Squeeze momentary switch or on/off slide switch.

Red
Excellent for preserving night vision. Penetrates the furthest through any particulate matter suspended in the air such as dust, smoke and water vapor.

Orange
Brighter in it's center than red or the yellow. Unique flashlight.

Yellow
Great penetration and visibility. Good flashlight style beam.

Red, **Orange** and **Yellow** are powered by one CR2032 lithium battery. 5 full days - 124 hours continuous on.

Green
Longest lasting for battery efficiency 7 days continuous on. Narrow angle beam projects far away. Powered by one CR2032 lithium battery.

Blue
Tremendously bright and excellent for walking around. Wide angle illuminates everything to the side as well as forward.

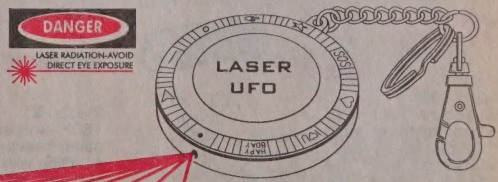
Turquoise
A BRILLIANT greenish blue. This unique color is radiant and uncommon.

White
Best for all around use as everything you look at is viewed as true color. Wide angle beam is good for peripheral viewing.

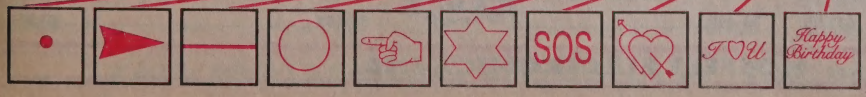
Blue, **Turquoise** and **White** are powered by two CR2016 lithium batteries. 12 hours continuous on and over 24 hours with normal pulse use.

25-292	Red	$10.95
25-291	Yellow	$10.95
25-333	Green	$14.95
25-332	Blue	$14.95
25-331	White	$14.95
25-354	Orange	$14.95
25-355	Turquoise	$14.95

10 in 1 ULTIMATE *LASER POINTER*



1-7/8"dia x 5/16"
With deluxe key chain. Powered by 3 LR44 batteries (included)
Dot has over 1600ft range. The next generation of laser pointers is here! Project 10 different patterns from this unique new design without changing lenses. This laser is so small it can be concealed in the palm of your hand. Keep people guessing where it's coming from!



$19.95

75-317.....

LOW PROFILE BASE

Mfg.# - 305
2-1/2" high, accepts all 5/8" stems. Has all the same features as above base. Designed for working close to bench.

74-398.....$17.49

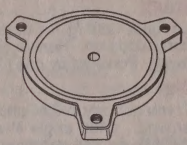
STANDARD BASE

Mfg.# - 300
3-3/4" high, accepts all 5/8" stems. Holds all regular PanaVise heads and PCB holders. Split ball feature permits work in various positions, turns and tilts. Three base mounting holes in lugs allow permanent mounting of base.

74-397.....$17.49

TOOL VICE MAGNETIC BASE

New



Mfg.# - 335
3-1/2"D x 3/8"T, 1lb
HOLDS UP TO 5 LBS
Perfect for the worker on the go. Attaches to metal beams, tool cabinets, steel tables, truck beds, vehicle bumpers etc. Will convert 300 standard base, 305 low profile base and the 201 PVC Jr.

74-543.....$17.95

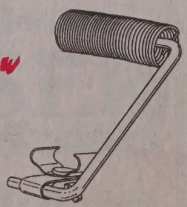
BENCH CLAMP

Mfg.# - 311
Height 6-3/4", Throat depth 2-3/8", Gripping range 0 - 3-1/2". Designed for 300 and 305 bases with all screws supplied.

74-401.....$32.49

WIRE MANAGER

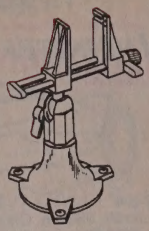
New



Mfg.# - 358
Organize your task when working with multiple wire leads. Works on both the Panavise 366 and the 376 heads. Secure, stable attachment. Pivots away from the jaws when not in use.

74-542.....$17.95

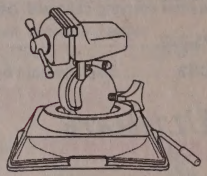
PV JR COMBO



Mfg.# - 201
6-3/4" high, 1" wide grooved thermocomposite jaws that open to 2-7/8". Vise and base mount combination. Head rotates 360° and tilts 210°. Great for circuit board and other small work.

74-403.....$18.49

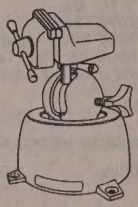
VACUUM BASE COMBO



Mfg.# - 381
Combo of the 380 vacuum base and a 303 standard head which creates portable versatility

74-408.....$47.99

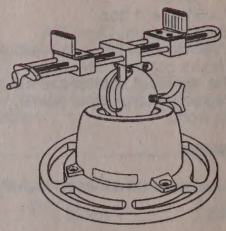
STANDARD PANAVISE



Mfg.# - 301
All purpose work holding unit. It tilts, turns and rotates. This combination consists of the 300 standard base and the 303 standard head which has 2-1/2" wide nylon jaws that open 2-1/4" for firm but damage free grip. Control knob locks the work firmly in any position.

74-400.....$34.95

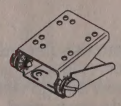
MULTI-PURPOSE WORK CENTER



Mfg.# - 350
Includes the 376 self-centering extra wide opening head, the 300 standard base and the 312 tray base mount. Economical and convenient. The perfect companion for home or hobby needs.

74-407.....$68.50

CLAMSHELL MOUNT

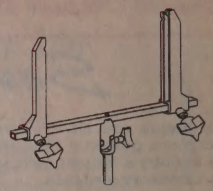


2" x 2-1/2"
180° universal pre-drilled plate, heavy-gauge steel construction with black finish. Mounts in any vehicle. Can adjust to any angle. Includes mounting hardware, assorted terminals and two 3 amp AGC fuses.

$.99

74-492.....

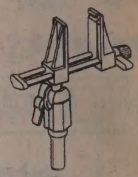
CIRCUIT BOARD HOLDER



Mfg.# - 315
Circuit board holder, holds PC boards of any shape up to 12" wide in any position. Tension arm extends 6" from the bar, with V-groove grip designed to hold PCB's up to 5/32" thick. Fits all 300 series bases.

74-406.....$23.50

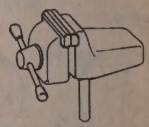
PV JR HEAD



Mfg.# - 203
Designed to fit all 300 series bases. 5/8" stem. Horizontal & vertical grooved jaws.

74-404.....$14.95

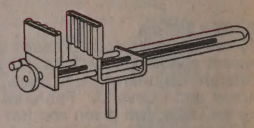
STANDARD VISE HEAD



Mfg.# - 303
Has 2-1/2" wide nylon jaws that open 2-1/4" and allow firm but damage-free grip. Fits all 300 series bases.

74-402.....$19.49

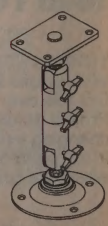
WIDE OPENING VERTICAL VISE HEAD



Mfg.# - 366
Wide opening vertical vise head fits all 300 series bases. Neoprene reversible pads, rotates 360°. Tilt action 180°, grip range 0 - 6", jaw pad width 1-3/4", throat depth 2".

74-405.....$23.99

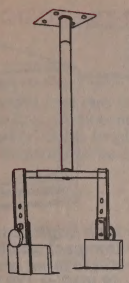
6" CELLULAR PHONE MOUNTING BRACKET



6" x 2-1/2"
Pedestal mount tilts, swivels and adjusts to any position. Shaft and end nuckles made of solid aluminum. Two steel base plates with four pre-drilled holes and plastic T-handle adjustments with metal screws. Black-textured coated body.

74-491.....$9.95

CCTV SECURITY CEILING MOUNT

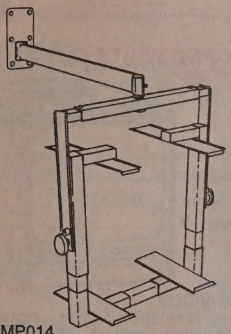


Mfg.# - VMP042
- *Rotates* 360° and has adjustable 0-30° tilt.
- *Mast extends* 17" - 27" from ceiling
- *Opens from* 8" - 14" (left to right)
- *Opens from* 9-3/8" - 12-1/8" (top to bottom)
- Holds most TV's and monitors 9" - 12"
- Maximum monitor depth 27"

Tempered steel construction with black scratch resistant finish. 60 lb load capacity.

74-504.....Black.....**$39.95**

DELUXE TELEVISION WALL MOUNT

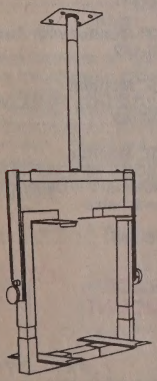


Mfg.# - VMP014
- *Rotates* 260° and has adjustable 0-15° tilt.
- *Opens from* 17" - 32" (left to right)
- *Opens from* 15-3/4" - 26-1/4" (top to bottom)
- Holds most TV's and monitors 17" - 29"
- Maximum monitor depth 23"

Strong, tempered high-grade steel with black scratch resistant finish. 165 lb load capacity.

74-498.....Black.....**$79.95**

DELUXE TELEVISION CEILING MOUNT



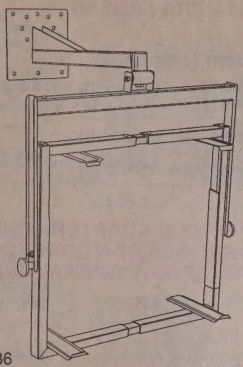
Mfg.# - VMP024
- *Rotates* 360° and has adjustable 0-15° tilt.
- *Mast extends* 18" - 30" from ceiling
- *Opens from* 17" - 32" (left to right)
- *Opens from* 15-3/4" - 26-1/4" (top to bottom)
- Holds most TV's and monitors 17" - 29"

Strong, tempered high-grade steel with black scratch resistant finish. 165 lb load capacity.

74-499.....Black.....**$79.95**

JUMBO TELEVISION WALL MOUNT

New



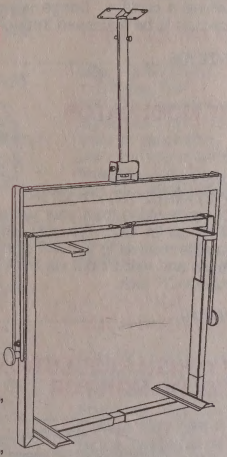
Mfg.# - VMP036
- *Rotates* 260° and has adjustable 0-15° tilt.
- *Opens from* 26-3/4" - 40-1/2" (left to right)
- *Opens from* 23-1/2" - 34-1/2" (top to bottom)
- Holds most TV's/Monitors 30" - 37"
- Maximum monitor depth 27"

Strong, tempered high-grade steel with black scratch resistant finish. 300 lb load capacity.

74-538.....Black.....**$135.95**

JUMBO TELEVISION CEILING MOUNT

New



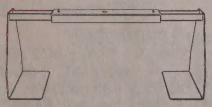
Mfg.# - VMP038
- *Rotates* 360° and has adjustable 0-15° tilt.
- *Mast extends* 18" - 30" from ceiling
- *Opens from* 26-3/4" - 40-1/2" (left to right)
- *Opens from* 23-1/2" - 34-1/2" (top to bottom)
- Holds most TV's/Monitors 30" - 37"

Strong, tempered high-grade steel with black scratch resistant finish. 300 lb load capacity.

74-539.....Black.....**$135.95**

VCR/SATELLITE RECEIVER HOLDER

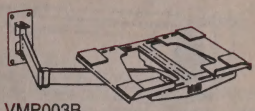
New



Opens from 13" - 21" (left to right), 6" H
Contructed of steel with scratch resistant black finish. For use with all of our mounting systems. Holds most front-load VCR's and time-lapse recorders and satellite receivers.

74-540.....**$19.95**

DUAL ARM TELEVISION WALL MOUNT

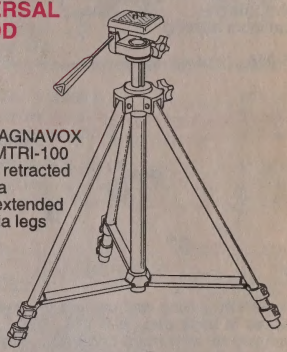


Mfg.# - VMP003B
- *Rotates* 240° and has adjustable 0-15° tilt.
- *Tray opens* 12" - 17" (left to right)
- Holds most TV's/Monitors 12" - 17" wide
- Maximum monitor depth 28-3/4"

Tempered steel construction with black scratch resistant finish. Includes safety/security strap and non slip pads. 60 lb load capacity.

74-497.....Black.....**$39.95**
74-496.....White.....**$39.95**

UNIVERSAL TRIPOD



Mfg. - MAGNAVOX
Mfg.# - MTRI-100
20-5/16" retracted
3-3/4" dia
48-3/8" extended
13/16" dia legs

For use with Camcorders and 35 mm cameras. Fluid-smooth, two-way panhead. Quick-release leg locks. Rubber-tipped feet. Constructed of aluminum and high impact black plastic. Hand knobs tighten down for secure unattended use.

75-315.....**$19.95**

HEAVY-DUTY UNIVERSAL TRIPOD

New

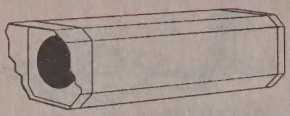
With bubble level

Mfg. - MAGNAVOX
Mfg.# - MTRI-400
22-7/16" retracted
3-3/4" dia
55-7/8" extended
15/16" dia legs

For use with Camcorders and 35 mm cameras. Fluid-smooth, three-way panhead with bubble-level. Quick-release leg locks. Geared center column with accessory hook. Two-way feet: rubber or spiked for indoor and outdoor use. Constructed of aluminum and high impact black plastic. Sturdy metal crank.

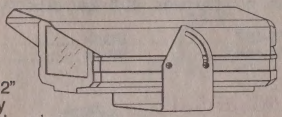
74-541.....**$39.95**

WEATHERPROOF OUTDOOR CAMERA HOUSINGS



3-1/8"sq x 12"
Almond ABS plastic housing.
Requires a 75-237 or a 75-238 bracket for mounting. (sold below)

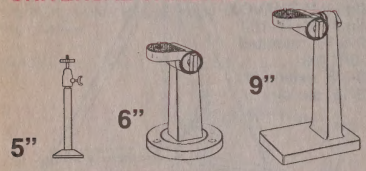
75-196.....**$49.95**



3" x 4" x 12"
Silver gray
aluminum housing.

75-286.....**$64.95**

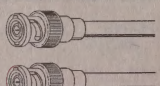
UNIVERSAL CAMERA MOUNTS



Single arm ceiling wall camera brackets. Arm rotates in base and head tilts. 1/4" / 20 stud compatible with most cameras. Made from high impact ABS black plastic.

75-146.....5".....**$12.95**
75-237.....6".....**$16.49**
75-238.....9".....**$17.95**

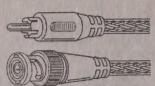
BNC MALE TO BNC MALE CABLE



Shielded RG-59U
75 ohms

60-298.....3ft.....**$2.99**
60-299.....6ft.....**$3.25**
60-300.....12ft.....**$4.95**
60-204.....25ft.....**$6.95**

RCA MALE TO BNC MALE CABLE



4 foot, super flex, clear jacket, 85% copper shielded RG-58U, 50 ohms.

60-395.....**$3.25**

RCA FEMALE TO BNC MALE

955.....**$1.50**

BNC FEMALE TO RCA MALE

957.....**$1.50**

CS MOUNT CCTV CAMERA LENSES

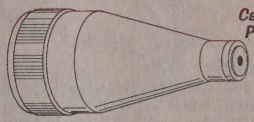
8mm (standard)

75-212.....Manual iris and focus.....**$69.95**
75-213.....Auto iris.....**$132.95**

4mm (wide lenses)

75-214.....Manual iris and focus.....**$79.95**
75-215.....Auto iris.....**$135.95**

PINHOLE ADAPTER LENS CHANGES CAMCORDERS TO COVERT OPERATION

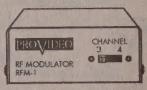


- **Screws directly on to front of camcorder zoom lens**
- **High quality optics maintain picture quality**

Mfg. - MARSHALL
The V-ZCAM pinhole lens allows using any camcorder with a 37mm filter thread, such as a Hi-8 to operate undercover inside a bag or behind a curtain. Image is reversed allowing controls to be accessed through bag.

V-ZCAM.....**$179.95**

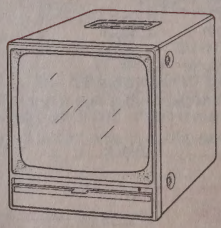
RF MODULATOR



Mfg. - PROVIDEO
5"(L) x 3-1/2"(W) x 1-1/2"(H)
Converts video from your video games such as Nintendo 64, CCTV/security camera, computer or satellite receiver to VHF/RF signal to your TV, etc. Audio and video input via RCA jacks. Video out via type "F" jack.

75-178.....**$29.95**

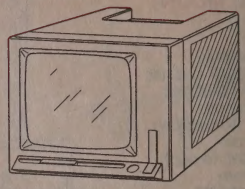
13" HIGH RESOLUTION COLOR MONITOR



Mfg. - PROVIDEO
14.2"(W) x 13"(H) x 14.2"(D), 25 lb
250 lines resolution. 2 camera input capability. NTSC color compatibility. Encased in a rugged black metal cabinet. Power switch, V-hold, tint, color and brightness controls behind front hinged panel. Input signal: composite video 1.0 Vp-p, A/B switchable. Input impedance: BNC connector, 75 ohm high impedance. Input 110 VAC, 60 Hz.

75-202.....**$299.95**

4-1/2" AC/DC B&W MONITOR

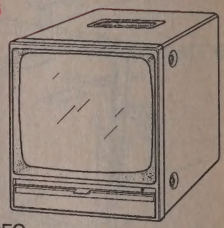


- ***High brightness & control***
- ***Compact size/lightweight***
- ***Audio input and speaker***
- ***12 VDC or 110 VAC***

Mfg. - MARSHALL
Lightweight and easy to carry. Great for camera set-ups and where a number of monitors must be in a small space. Can be plugged directly into 12 VDC for mobile applications. 450 lines of resolution. Input: Video-BNC, Audio - 3.5 mini. 110 VAC power supply included.

VM-45.....**$109.95**

BLACK AND WHITE CCTV MONITORS



Mfg. - PROVIDEO
1000 lines resolution center. Housed in a rugged black metal cabinet. All controls behind front hinged door. .5-2 Vp-p composite video, sync negative. BNC female input, 75 ohm/high switchable.

9" Monitor
10"(H) x 9"(W) x 9-1/2"(D), 13.5 lbs
75-140.....**$134.95**

12" Monitor
12-1/4"(H) x 12-1/4"(W) x 12-1/4"(D), 21 lbs
75-141.....**$154.95**

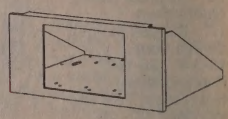
12" Monitor with Audio
75-142.....**$179.95**

15" Monitor
12-1/2"(H) x 14-1/4"(W) x 13-1/4"(D), 28 lbs
75-143.....**$229.95**

20" Monitor
19-5/16"(H) x 14-3/16"(W) x 18-5/8"(D), 40 lbs
Automatic impedance switch for loop thru. A/B switchable

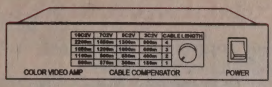
75-264.....**$399.95**

RACK MOUNT



75-261.....Rack mount for 9" monitor.....**$64.95**
75-262.....Rack mount for 12" monitor.....**$84.95**
75-263.....Rack mount for 15" monitor...**$109.95**

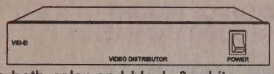
COMPOSITE VIDEO AMPLIFIER



Mfg. - PROVIDEO
9-5/8"(L) x 8-1/2"(W) x 1-5/8"(H)
Compensates for composite video loss due to long cable runs for both B/W and color camera's to monitor. Composite video in and out by BNC jacks. (This is not for RF signals). Cable length and gain are both selectable. Output gain and signal distance can be adjusted.

75-273.....**$59.95**

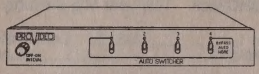
VIDEO DISTRIBUTION AMPLIFIER



Mfg. - PROVIDEO
9-5/8"(L) x 8-1/2"(W) x 1-5/8"(H)
Video distribution amp operates with both color and black & white systems. This unit distributes composite video signals for up to 6 monitors, etc. Video input/output via BNC type connector.

75-301.....**$59.95**

CCTV SEQUENTIAL VIDEO SWITCHERS

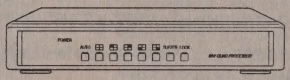


Mfg. - PROVIDEO
12-3/8"(L) x 9-5/16"(W) x 1-3/4"(H), 4.9 lbs
Automatic sequential video switcher adjustable from .5 to 30 seconds. LED display indicates camera in action. Manual overrides for "homing in" or bypass. 120 VAC input.

75-138.....4 inputs.....**$89.95**
75-271.....4 inputs/audio.....**$119.95**

12-1/4"(L) x 9-1/2"(W) x 1-3/4"(H)
75-272.....8 inputs.....**$119.95**

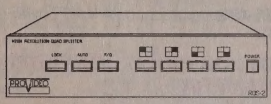
DIGITAL VIDEO QUAD SPLITTER



Mfg. - PROVIDEO
13-1/2"(L) x 9-7/8"(W) x 9"(H), 4.9 lbs
View four locations on one monitor or full screen display with the option of auto sequencing. Adjustable from 1-15 seconds. 100% picture compression. 120 VAC input.

75-270.....Black & White.....**$349.95**

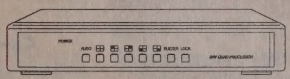
FOUR CAMERA SCREEN SPLITTER



Mfg. - PROVIDEO
9-1/2" x 9" x 2"
Allows four different camera locations on one monitor screen or camera sequencing. 100% picture compression allowing total camera area to be shown in each quadrant. Freeze frame and instant manual/alarm selection of any camera to full screen. Alarm inputs: Up to four alarm inputs, one input per camera. Alarm outputs: Normally open, normally closed contacts with shared common. Alarm out activates external devices such as a VCR or auto dialer. Signal format: EIA monochrome only. Compatible with most CCTV cameras. Quad output: 1.0V p-p 75 ohms. 120 VAC input via 18/3 line cord.

75-139.....Black & White.....**$369.95**

COLOR QUAD SPLITTER VIDEO COMPRESSOR

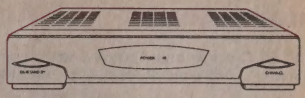


Mfg. - PROVIDEO
13-1/2"(L) x 9-7/8"(W) x 9"(H), 4.9 lbs
View four locations on one monitor or full screen display with the option of auto sequencing. Adjustable from 1-15 seconds. 100% picture compression. 120 VAC input.

75-311.....Color.....**$599.95**

MULTIPLEXER

New

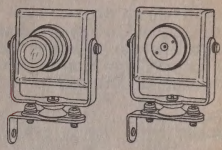


Mfg. - PROVIDEO
Mfg.# - MV-9
14-1/2"(W) x 10-1/2"(D) x 2-3/4"(H), 7 lbs
120 VAC input. Multi-picture selection (9, 8, 4, 2 or 1).
Accepts up to 9 audio/video inputs such as CCD cameras, VCR, laser disc player, satellite receiver and video game system. Has dual audio/video output that can be connected to LCD projector. CCD trigger input for home security application. IR remote controller.

75-349.....**$399.95**

BLACK & WHITE MINI CAMERAS

New



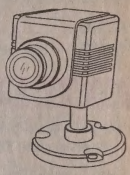
Mfg. - MARSHALL
1-1/8"sq x 3/8"
1/4" CCD camera with built-in 3.6mm lens with electronic iris. .4 lux minimum illumination. 380 lines of resolution. Requires 7.5-14.5 VDC. Comes with mounting brackets for wall and ceiling mount along with 6ft RCA cable.

V-1215T.....*BLACK & WHITE*.....**$79.95**
75-350.....60ft extension cable.....**$19.95**
56-346.....Power supply for above.....**$12.95**

V-1215T-PL.....*WITH PINHOLE LENS*.....**$79.95**
75-350.....60ft extension cable.....**$19.95**
56-346.....Power supply for above.....**$12.95**

MINI COLOR CAMERA

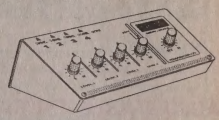
New



Mfg. - MARSHALL
1-1/2"sq x 7/8"
1/4" CCD camera with 3.7mm built-in lens with electronic auto iris. 10 lux minimum illumination. >300 lines of resolution. High quality PCB with new high tech surface mounting technique ensures resistance from shock & vibration. Auto white balance. Comes with mounting bracket and 6ft RCA cable.

V-1246T.....**$99.95**
75-350.....60ft extension cable.....**$19.95**
56-346.....Power supply for above.....**$12.95**

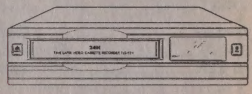
4 CHANNEL MICRO MIXER



6-1/2"(L) x 4"(W) x 2"(H)
Features a LED peak level indicator. 1/4" plug for input and output. Each channel has variable level control. Output also has a master level control. Perfect for use for surveillance systems in conjunction with cameras with audio and quad splitters. S/N ratio >55 dB. Freq response: 20-20,000 Hz. Impedance: Input >22 K ohm, Output >10 K ohm. Output level: 2.1V RMS. Power supply included (9V battery optional).

75-292.....**$44.95**

24-HOUR TIMELAPSE VCR



Mfg. - SONY
Mfg.# - SVT-124
13-1/8" x 9-1/2" x 3-7/8"
4 head VHS time lapse VCR • 2/12/24 hour time lapse recording/playback capability (T-120) • Audio recording capability in 2/12/24 hour modes • Over 300 lines (color), 350 lines (B/W) horizontal resolution • Built-in time/date generator, 30 day battery backup • Auto repeat timer recording capabilities • Alarm scan/alarm log capability • Loop through video on power off mode • Menu driven settings - no video inputs necessary • Security lock • Overwrite inhibit, clog detection and warning out.

75-300.....**$789.95**

BOARD CAMERAS

1/3" CCD single board black & white cameras. .1Lux/F1.8 minimum illumination. 400 lines of resolution. Requires 12 VDC @ 200mA max.

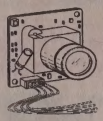
4.3mm lens, 78°

BC327.....1-1/4"sq x 1".....**$79.95**
56-774.....Regulated power supply for above.....**$9.95**

3.6mm lens, 92°

BC329.....1-1/4"sq x 1".....**$79.95**
56-774.....Regulated power supply for above.....**$9.95**

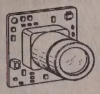
MINI BOARD CAMERA



1-3/16"(sq) x 1"(D)
1/3" CCD single board camera with built-in 3.6mm wide angle lens with adjustable focus and electronic auto iris. .2 lux minimum illumination. 380 lines of resolution. Requires 12 VDC, 100 mA, 1.2 watt max.

75-259.....Black & White.....**$79.95**
56-346.....Power supply for above.....**$12.95**

MULTI FUNCTION MINI BOARD CAMERA

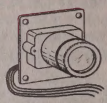


Mfg. - Marshall
1-1/4"sq x 11/16"
1/3" CCD single board black & white camera with built-in 3.6mm wide angle lens with electronic auto iris. Special features include mirror-image function, AGC control, picture edge-enhancement circuit all controlled by dip switch on back. .1 lux minimum illumination. 400 lines of resolution. Runs 8 hours on a 9 volt lithium battery or 4 hours on 4 "AA" batteries. Requires 12 VDC @ 120 mA.

V-1208.....Board Camera.....**$89.95**
56-346.....Power supply for above.....**$12.95**

COLOR CMOS BOARD CAMERA

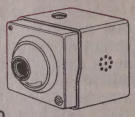
World's first USA made color video camera on a single integrated circuit. The chip delivers a full color NTSC picture.



Mfg. - MARSHALL
1-1/8"(sq) x 1-1/4"(D)
1/3" format 6.5mm lens with 352(H) x 240(V) pixel array. 10 lux (f1.5mm) minimum illumination. 240 lines of resolution. Features auto white balance, backlight compensation mode, aperature correction. 75 ohm output for driving standard cable and monitors. Requires 6-12 VDC @ 60mA max.

V-X009-PCB.....***COLOR***.....**$89.95**

ADJUSTABLE EYEBALL CAMERA

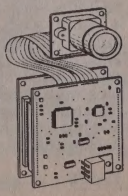


Mfg. - MARSHALL *Built-in Pan & Tilt with Audio*
2"(sq) x 2-1/8"(D)
1/3" CCD camera with built-in 4.3mm lens with electronic iris shutter. .4 lux minimum illumination. 380 lines of resolution. Built-in manual pan and tilt. 20° horizontal & vertical direction. Two-way audio. Built-in microphone and speaker allows two-way communications by audio. Audio/video/power all in one socket. Includes wall mount bracket and U1/4" tripod mount socket. Gray.

75-220.....Black & White.....**$129.95**
56-346.....Power supply for above.....**$12.95**
75-224.....60FT cable with connector.....**$23.49**

COLOR BOARD CAMERA

COLOR

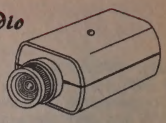


1-9/16"sq x 2-7/16"(H), 1.5 oz
1/3" color CCD camera with built-in 6mm lens with electronic auto iris. 2 lux minimum illumination. >330 lines of resolution, 270,000 pixels. Automatic white balance (AWB) and gain control (AGC) along with back light compensation. Requires 6VDC @ 250mA max.

CBC500.....**$219.95**
56-586.....Power supply for above.....**$4.99**

CCD CAMERA WITH LENS

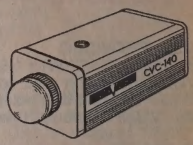
with Audio



Mfg. - PROVIDEO, #CVC-100L
2-3/4"(L) x 2"(W) x 4"(H)
1/3" CCD camera. Built-in 4mm (F1.4) lens with auto electronic iris which compensates for all light conditions. .3 lux minimum illumination. 400 lines of resolution. 6" focal point. Outputs: Video - BNC jack, Audio - RCA jack. Charcoal gray ABS plastic case. Powered by 12 VDC adapter (included). Two year Mfg warranty.

75-136.....Black & White.....**$119.95**

C OR CS MOUNT SECURITY CAMERA



Mfg. - PROVIDEO
4-3/8"(L) x 2-1/8"(W) x 1-5/8"(H)
This 1/3" CCD camera requires only .1 lux and has 380 lines of resolution. Built-in electronic iris control. S/N ratio >45 dB. Enclosed in a rugged black metal case. Accepts a C or CS mount lens sold separately below. Powered by a 12 VDC power supply (included). Video output - BNC jack. Two year Mfg warranty.

Lens sold separately

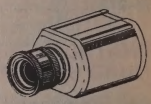
75-217.....Black & White.....**$99.95**

1/3" CCD DIGITAL COLOR CAMERA

COLOR

Mfg. - PROVIDEO
High performance digital color video camera. 1/3" CCD device, 2 lux sensitivity, 350 lines resolution, auto white balance, built-in electronic shutter. Enclosed in black metal housing. Includes mounting bracket and 12 VDC power supply. Accepts C or CS mount lens (sold separately).

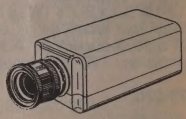
12 VDC



2-11/16"(H) x 2-1/2"(W) x 2-1/8"(D), 8 oz

75-201.....Power supply included.....**$299.95**

24 VAC

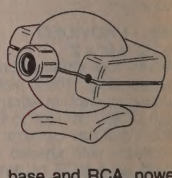


2-13/16"(H) x 2-3/16"(W) x 6-1/8"(D), 1.1 lb

75-200.....**$349.95**

56-435.....24 VAC power supply for above.....**$7.95**

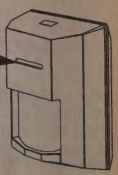
COLOR VIDEO CONFERENCING CAMERA



Mfg. - PACKARD BELL
3-1/4" x 3" x 2-1/2"
Built-in microphone. White balance and back light contrast and image (pos/neg) switches. Built-in 3.8mm focal length, electronic aperture control, f/2.0 focusing from infinity to front element of lens. 330 lines of resolution. Includes base and RCA, power and mic connectors. 12 VDC power supply included.

75-310.....**$109.95**

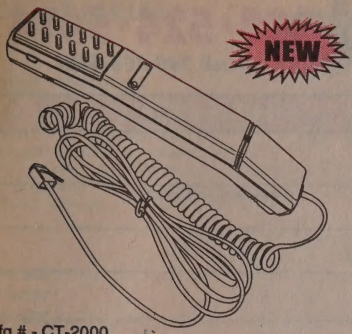
HIDDEN CAMERA



Mfg. - PROVIDEO
5" x 2-7/8" x 2-5/16"
3.6mm wide angle pinhole lens with electronic auto iris. .5 lux minimum illumination. 400 lines of resolution. Video output - RCA jack. Housed in non functional PIR housing. Powered by 12 VDC adapter (included). Two year Mfg warranty.

75-319.....Black & White.....**$109.95**

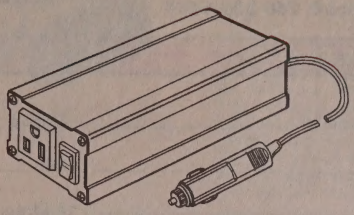
MINI DELUXE TELEPHONE



Mfg.# - CT-2000
7-5/8" x 1-1/4" x 1-1/4"
Innovative mini design allows you to place an extra phone at different locations. Black plastic construction. Tone/pulse switchable. Last number redial button. 8ft fully extended cord, 4-1/2ft coiled cord. Hangs up when placed flat on surface.

56-798.....**$7.95**

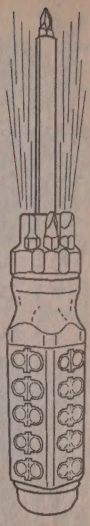
140 WATT DC TO AC POWER INVERTER



Mfg. - WAGEN
Mfg.# - 9618
5-1/2" x 2-1/2" x 1-5/8", 15.2 oz
Input: 10-15 VDC (2'-8" lighter cord)
Output: 115 VAC, 60Hz modified sine wave
Surge: 265 watts (0.1 sec), 15A fuse
On/off power switch

40-202.....**1 outlet**.....**$34.95**

9-IN-1 SCREWDRIVER WITH LIGHT



9" x 1-1/4"
15" retractable magnetic wand.
23-1/2" fully extended with magnetic wand. Built in dual miniature light bulbs for easy viewing in low light or in small spaces. Industrial quality tool steel bits. 3/16" and 1/4" slotted tips, #1 and #2 Phillips and T15 and T20 Torx. Shaft acts as a 1/4" socket drive. 4-1/2" rubber gripped handle for non-slip handling. Shaft self stores tips. Requires two "AAA" batteries (not included).

54-238.....**$5.39**

ORDER INFORMATION

HOW TO ORDER:

BY MAIL: You may mail your order to: Hosfelt Electronics, Inc., 2700 Sunset Blvd., Steubenville, OH 43952.

BY PHONE: You may phone your order to Hosfelt Electronics, Inc. by calling: **800-524-6464**. This toll-free line is manned from 8:30 a.m. to 5.30 p.m., Eastern Standard Time, Monday through Friday. Local calls: **740-264-6464.**

BY FAX: 24 hour access, 7 days a week for facsimile orders at **800-524-5414 or 740-264-5414.**

PAYMENT:

You may pay by check, money order, Visa, Master Card, American Express, Discover, or UPS or FED EX C.O.D. (cash on delivery). Sorry, no Parcel Post C.O.D.'s. United States funds only.

CREDIT: Immediate credit will be extended to schools, hospitals, government agencies and public utilities when ordering by purchase order. Same day credit will be extended to well rated companies listed with Dun & Bradstreet. Companies not rated with D & B may establish credit by contacting us for a credit application. Since this process takes some time, prepay or C.O.D. is required until processing is complete.

MINIMUM ORDERS:

NO MINIMUM for continental U.S. paying by credit card or prepayment. C.O.D. orders $10.00 minimum.

OPEN ACCOUNT: $25.00 minimum. (Sorry, but it is too costly to process the paper work on a lesser dollar volume.) A minimum order of $100.00 is required for instant credit.

OUTSIDE THE UNITED STATES: Canada, Mexico, Puerto Rico or any place outside the U.S. must order a minimum of $50.00 in merchandise, and must prepay by credit card. Also, due to the high cost of processing these orders, a $5.00 service charge will be added to your actual cost of shipping. Absolutely no C.O.D.'s outside the continental United States.

SALES TAX:

All orders with an Ohio shipping address must include 6.5% Ohio sales tax on the merchandise portion of your order, unless you provide us with an exemption permit or Ohio resale tax number.
Please be advised that we are not set up to remit sales tax to states other than Ohio. If your purchases are subject to sales tax in another state it will be your responsibility to remit to that state.

SHIPPING METHOD:

Hosfelt Electronics, Inc. will ship orders via UPS ground or FED EX SUPER SAVER unless otherwise requested. We recommend UPS or FED EX 2nd Day Air, or Next Day Air if express shipment is needed. (Please Note: Next day air orders may not be shipped C.O.D.).
Please note: Parcel post may take an additional day for processing. Non-continental United States orders, please allow an additional 5 working days to process. Motor freight will be used for shipment of bulk orders when excessive weight is involved.

SHIPPING & HANDLING CHARGES:

Shipping charges are figured by adding $1.00 to the carrier's current chart rate. We recommend UPS or FED EX 2nd Day Air or Next Day Air service if express shipment is needed.
Customers mailing in checks or money orders must allow $6.50 for UPS ground or FED EX SUPER SAVER shipping. Any amount not required for freight charges will be refunded.
COD CUSTOMERS: Please allow an additional $5.00 for UPS, $7.50 for FED EX. Sorry no Parcel Post C.O.D.'s.
OUTSIDE THE CONTINENTAL UNITED STATES: Any order shipped outside the United States (Canada, Mexico, Puerto Rico, etc.) must prepay the actual shipping plus a $5.00 service charge due to the high cost of processing these orders. Please allow at least 5 working days for your order to be processed, plus shipping time.

BULK SALES:

If you have a requirement for a quantity of an item beyond the largest package listed in the catalog, please contact us. We can advise on total availability and larger quantity pricing.

DAMAGED MERCHANDISE:

If you receive a shipment containing freight damaged merchandise, please retain the package, including the packing material, and notify us of the damage within 3 days of its receipt. We must file a claim from Steubenville, and will advise you as to further action.

REFUSED SHIPMENTS:

If the buyer refuses to accept a shipment for any reason, seller is entitled to be compensated for all shipping charges and 15% of the order value, but in no case less than $5.00. Also, once you have refused a shipment, we will require prepayment on all future orders. If a package is returned to us that could not be delivered due to customer error, and you would like the package re-shipped, you will be assessed a $5.00 reshipment charge. If the return is due to our error, no additional fee will be charged.

ALL MERCHANDISE SUBJECT TO PRIOR SALE

SATISFACTION GUARANTEED:

Hosfelt Electronics, Inc. strives to accurately describe all items and to provide high quality merchandise. If for any reason you are dissatisfied, please fill out the Return Merchandise Form enclosed with your order, and return the merchandise within 15 days in new, re-sellable condition for a refund or credit. Shipping is not refundable unless an error was caused by Hosfelt Electronics, Inc., in which case return shipping is refunded.

WARRANTY:

Since we have neither manufactured any of the items offered in this catalog, nor purchased them with recourse to warranties by their original manufacturers, we cannot make any warranties or accept any responsibility for their use or misuse beyond our selling price. We do, however, guarantee the merchandise to be delivered in good condition.

PRODUCT RETURN POLICY:

All returns or exchanges must be made within 15 days from the receipt of merchandise. Returns or exchanges may be made by filling out the 'Return Merchandise Form' enclosed with your order. A copy of your original invoice must accompany your return. All returned merchandise must be shipped freight prepaid in new, unused and re-sellable condition, including accessories and documentation. Internal manufacturer's packaging/boxes must be undamaged. Do not use manufacturer's box as shipping carton. No items will be accepted for return which have been subject to misuse, modified, soldered or altered. Parts returned due to customer error are subject to a 15% restock charge. Items considered "special" are non returnable. In order to receive a credit or refund, parts must be received within 15 days of the sales order date. After such time, all sales are considered final.

ERRORS & OMISSIONS:

Seller reserves the right to correct clerical errors and omissions. Customer order shortage claims must be made within 15 days of shipment to be valid.

98% OF OUR ORDERS ARE SHIPPED WITHIN 24 HOURS. NO MINIMUM ORDER, CHARGE CARD OR PREPAY

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STEUBENVILLE, OH 43952-1158

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Local: 740-264-6464

Fax Toll Free
800•524•5414
Local: 740-264-5414

SOLD TO

Date _____ Customer # _____

Sold to _____

Attn _____

Address _____

City _____

State _____

Zip _____ - - -

Purchase Order # _____

Ship Via _____
(Sorry, no Parcel Post C.O.D.'s)

Daytime Phone (_____) _____

Fax (_____) _____

SHIP TO

Ship to _____
(If different from "Sold to")

Attn _____

Address _____

City _____

State _____

Zip _____ - - -

If something is temporarily out of stock, would you like us to:
(✓) *(check one)*

☐ *Back Order - Ship Partial*
Back orders are shipped freight free on regular stocking items.

☐ *Hold - Ship complete in 5-10 days*

☐ *Cancel Item*

HEI Part#	*Qty*	*Description*	*Unit Cost*	*Total Price*

Payment Method (check one) (✓)

☐ *Check/Money Order* ☐ *C.O.D.* ☐ *Charge Card*

Charge Card# _____ *Exp. Dat* ____/____

Cardholder Name _____

Signature _____

Subtotal	
Estimated Ground Shipping $6.50	
COD FEE *UPS $5.00 FedEx $7.50*	
6½% Ohio Sales Tax	
TOTAL	

ULTRA MINI BULLET CAMERA

Mfg.# - PROVIDEO
7/8"(dia) x 1-15/16"(L), 1oz
1/3" CCD black & white camera with built-in lens with electronic shutter enclosed in metal housing. .5 lux minimum illumination. 380 lines of resolution. Includes mounting bracket and 12 VDC power supply. 3ft hook-up cable with RCA jack for video hook-up. Two year Mfg warranty.

3.6mm Wide Angle Lens
72° Horizontal x 53° Vertical

74-506.....Silver Body.....
74-507.....Black Finish.....
74-508.....Pinhole with Black Finish.....

$109.95

8mm Lens
74-536.....Black Finish.....**$139.95**

2.5mm Super Wide Angle Lens
90° Horizontal x 70° Vertical
74-535.....Black Finish.....**$139.95**

WEATHERPROOF BULLET CAMERA

Mfg.# - PROVIDEO
Mfg.# - CVC-130R
1"(dia) x 2"(L), 1.7 oz
1/3" CCD camera with a built in 3.6mm wide angle lens with electronic auto iris. Enclosed in black aluminum housing. .1 lux minimum illumination, 380 lines of resolution. 3ft hook-up cable with RCA jack for video hook-up. Includes mounting bracket and 12 VDC power supply. Two year Mfg warranty.

75-296.....Black & White.....**$135.95**

WEATHERPROOF COLOR BULLET CAMERA

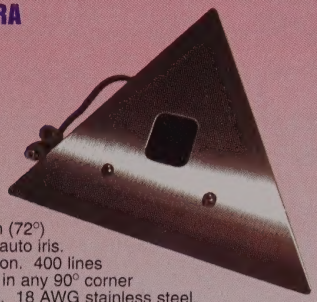
Mfg.# - PROVIDEO
Mfg.# - CVC-635CR
1"(dia) x 2-5/8"(L), 7 oz
1/3" CCD camera with a built in 3.6mm wide angle lens with electronic auto iris. Enclosed in black weather resistant housing. 1 lux minimum illumination, 330 lines of resolution. 1ft hook-up cable with RCA jack for video hook-up. Includes mounting bracket and 12 VDC power supply. Two year Mfg warranty.

Color

NEW

75-344.....**COLOR**.....**$199.95**

CORNER MOUNT CAMERA



Mfg. - PROVIDEO
Mfg.# - CVC-105CM
8-5/8" x 6" x 2-7/8", 1.4 lbs
1/3" CCD camera with a 3.6mm (72°) wide angle lens with electronic auto iris. .1 lux (F1.6) minimum illumination. 400 lines of resolution. Can be mounted in any 90° corner (Room, hallway, elevators, etc.). 18 AWG stainless steel. Video hook-up - RCA-F. Includes 12 VDC power supply and RCA-M to BNC-F adapter. Two year Mfg. warranty.

75-032.....Black & White.....**$199.95**

WATERPROOF INFRARED CAMERA

NEW

Mfg. - SPECO
Mfg.# - CVC-320WP
1-3/8"dia x 1-7/8"(L)
1/3" CCD camera with 3.6mm wide angle lens with electronic iris. Requires .05 lux LED off. "See's" in total darkness with LEDs on. 380 lines of resolution. Brass housing, black finish. 100% waterproof. Underwater operation capable. 90ft max depth. 6ft cable with RCA female for video hook-up. 12 VDC power supply and mounting bracket included. Two year Mfg warranty.

75-340.....Black & White.....**$209.95**

INFRARED CAMERA

Mfg. - CLOVER
Mfg.# - CM11R
2" sq x 1-1/8" D
1/3" CCD image sensor with built-in 4.3mm lens enclosed in black ABS plastic with built-in microphone and infrared leds. .2 lux minimum illumination. >380 lines of resolution. Video and audio hook-up via RCA plug. Camera comes complete with 30ft cable, mounting bracket and power supply. One year Mfg. warranty.

CM11R.....**$119.95**

WEATHERPROOF INFRARED ILLUMINATOR

Mfg. - PROVIDEO
6-1/4" x 5-1/8" x 4", 3 lbs
Illuminates 40' range and 30° horizontal/vertical angle dispersion. Housed in a heavy duty weather resistant aluminum enclosure. Excellent for any night application indoors or out! 120 VAC input.

IR-200.....**$139.95**

ENCLOSED BOARD CAMERA

Mfg. - PROVIDEO
Mfg.# - CVC-60BC
2"(sq) x 1"
1/3" CCD with built-in 3.6mm wide angle lens. .1 lux minimum illumination. 400 lines of resolution. Enclosed in black aluminum housing. 1ft output cable with BNC jack for video hook-up. Includes mounting bracket and 12 VDC power supply. Two year Mfg warranty.

75-285.....Black & White.....**$129.95**

ENCLOSED BOARD CAMERA WITH AUDIO

Mfg. - PROVIDEO
Mfg.# - CVC-45BC2
1-3/8" x 1-5/16" x 3/4", 1.7 oz
1/3" CCD camera with a built in 3.6mm wide angle lens with electronic auto iris enclosed in black ABS housing. .1 lux minimum illumination. 380 lines of resolution. 3ft output cable with RCA jack for video and audio hook-up. Includes mounting bracket. BNC-F to RCA-M adapter and 12 VDC power supply. Two year Mfg warranty.

75-297.....Black & White.....**$129.95**

PIR MOTION DETECTOR *(Functional)* WITH HIDDEN CAMERA

NEW

Mfg. - PROVIDEO
Mfg.# - CVC-272PIR
4-5/8" x 2-13/16" x 2"
1/3" interline CCD camera with built-in 3.6mm pin hole lens. .5 lux minimum illumination. >480 lines of resolution. Enclosed in a white ABS plastic functional PIR motion detector. Comes complete with mounting bracket, power supply and detailed instructions on PIR hook-up. Video output - BNC female. 2 year Mfg warranty.

PIR:

- N.O./N.C. relay output current: 2 amp @ 30 VDC. Motion will trigger alarm, light or recording device.
- Detection range: 100° wide angle/58 beams in 3 levels. Maximum coverage area 35' x 35' (sensitivity adjustable).
- Dwell time adjustable 2 to 30 seconds.
- Pulse control - can be set to trigger on either one or two movements within 15 seconds.
- PIR is triggered by body movement. Do not place in direct sunlight or reflected sunlight.

HOT MOVER!

75-343.....Black & White.....**$139.95**

DOME CAMERAS

Adjustable inside camera bracket!

Mfg. - PROVIDEO
1/3" CCD camera with built-in 3.6mm wide angle lens. .3 lux minimum illumination. >400 lines of resolution. Sleek black design. Metal bracket, high impact plastic dome. 5ft hook-up cord with RCA jack output. BNC adapter and power supply included. 2 year mfg warranty.

WALL MOUNT

NEW

Mfg.# - CVC-390WD
Dimensions:
Dome: 4-1/2" x 3-1/2"D
Bracket: 4-3/4"L

75-341.....Black & White.....**$195.95**

CEILING MOUNT

NEW

Mfg.# - CVC-380CD
Dimensions:
Dome: 4-1/2"W x 3-1/2"D
Bracket: 4-3/4"L

75-342.....Black & White.....**$195.95**

SMOKE DETECTOR CAMERA WITH AUDIO

Mfg. - PROVIDEO
6-3/4" dia. x 1-1/2", Built-in 4mm (F1.4) lens with auto electronic iris which compensates for all light conditions. .3 lux minimum illumination. 400 lines resolution. Outputs: Video - BNC jack, Audio - RCA jack. Built into a white ABS plastic smoke detector (non-functional). Powered by a 12 VDC adapter (included). Two year Mfg warranty.

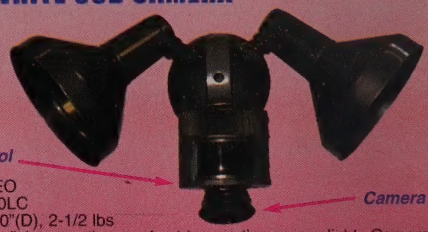
75-135.....Black & White.....**$119.95**

WEATHERPROOF OUTDOOR CAMERA

Mfg. - PROVIDEO
Mfg.# - CVC-330
2-1/4"(dia) x 2-1/2"(D), 1 lb
1/3" CCD camera with built-in 3.6mm (f1.4) wide angle lens. .5 lux minimum illumination. 380 lines of resolution. Small heavy duty outdoor high resolution CCD camera mounted into a weatherproof electrical box for unobtrusive outdoor surveillance. Video output - RCA jack (BNC adapter included). Powered by 12 VDC adapter (included).

75-128.....Black & White.....**$189.95**

OUTDOOR MOTION SENSOR LIGHTS WITH BLACK & WHITE CCD CAMERA



Mfg. - PROVIDEO
Mfg.# - CVC-340LC
Base 5"(dia) x 10"(D), 2-1/2 lbs
Covert camera built into weatherproof outdoor motion sensor light. Camera has 1/3" CCD sensor with built-in 3.6mm (f1.4) wide angle lens. Requires .5 lux minimum illumination. 380 lines of resolution. All enclosed into surface mount weatherproof electrical box. Video output - RCA jack (BNC adapter included). Powered by 12 VDC adapter (included).

75-308.....Black & White.....**$249.95**

WEATHERPROOF PIVOTING BALL CAMERA

Mfg. - PROVIDEO
4"(dia) x 6"(H)
1/3" CCD camera with built-in 3.6mm (f1.4) wide angle lens. High speed electronic shutter. .3 lux minimum illumination. 400 lines of resolution. Ultra modern design camera housed in light gray ABS molded plastic can be mounted on ceiling or wall, indoor or outdoor. Video output - RCA jack. Powered by 12 VDC adapter (included).

75-218.....Black & White.....**$109.95**

SMOKED DOME CEILING MOUNT CAMERA

Mfg. - PROVIDEO
4" dome dia x 3"(H)
Unobtrusive surveillance. 1/3" CCD camera can be rotated 360° and tilted ±90°. Built in 3.6mm (F1.8) wide angle lens with auto electronic iris. .2 lux minimum illumination. 400 lines of resolution. Video output - BNC jack. Powered by a 12 VDC adapter (included). Two year Mfg warranty.

75-291.....Black & White.....**$94.95**

CLOCK WITH HIDDEN CAMERA *Functional*

Mfg. - PROVIDEO
12"sq x 2"
Built-in 1/3" (3.6mm) wide angle lens (F1.6) with auto electronic iris is concealed behind translucent clock face panel in upper left corner. Housed within a stylish wood frame operational clock. Powered by a 12 VDC adapter (included). Clock requires one AA battery. Two year Mfg warranty.

75-179.....Black & White.....**$174.95**

4" COLOR LCD MONITOR

NEW

With Audio

Color

Mfg. - MARSHALL
Mfg.# - V-LCD4-PA
6-1/4" x 4-3/8" x 2-1/2", 2-1/2 lbs.
4" diagonal active matrix, TFT color and black & white monitor with built-in backlight. 383 x 234 picture element. Enclosed in streamlined high impact plastic case. On/off, brightness and volume controls built-in. 1/8" headphone output. Includes 12 VDC @ 500 mA AC adapter and stand base bracket.

75-346.....**$259.95**

Mfg.# - V-LCD4-PA-KIT
Includes above monitor, battery pack (and charger) and free case. Rechargeable battery pack powers monitor for 1 hour and 20 minutes. Weatherproof padded carrying case with shoulder strap, screen cover and hood that shields screen from light that may interfere with viewing.

NEW

75-348.....**$324.95**

DUAL INPUT 4" COLOR LCD MONITOR

With Audio

Color

Pro Model

Mfg. - MARSHALL
Mfg.# - V-LCD4-PRO
5-1/2" x 3-1/2" x 1-3/4", 14.5 oz. 1/4-20 mounting hole. Professional broadcast quality, high resolution full color or BW picture elements 480(H) x 234(V), dot pitch .171(W) x .264(H), built-in (CCFT) back light. 2 units can be put side by side on a 19" rack panel or mounted on tripod. Enclosed in heavy duty brushed aluminum case. 2 channel switchable (BNC) inputs, 5 external controls for brightness, color, tint, red and blue drive control for enhanced sharpness and a on/off push switch. Requires 12 VDC @ 500 mA power supply.

75-294.....**$349.95**
56-512.....Power supply for above.....**$18.95**

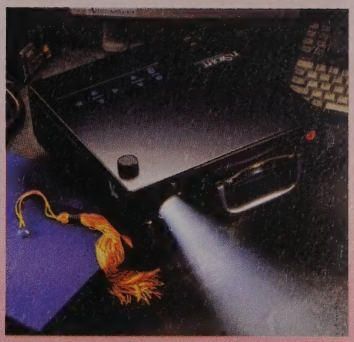
Mfg.# - V-LCD4-PRO-KIT
Includes above monitor, battery pack (and charger) and free case. Rechargeable battery pack powers monitor for 1 hour and 20 minutes. Weatherproof padded carrying case with shoulder strap, screen cover and hood that shields screen from light that may interfere with viewing.

NEW

75-347.....**$409.95**

PORTABLE DATA PROJECTOR

Project your computer or security images!



Mfg. - nVIEW
11" x 12" x 5-1/4", 17 lb
640 x 480 VGA monochrome display. 85mm manual zoom/focus lens projects up to 20 feet with 8ft diagonal image. Computer and composite video input. 70 ANSI lumens. Includes remote control, Apple® & IBM® cables, adapters and power cable. Has built-in handle.

75-339.....**$89.95**

COLOR CAMERA AND LCD MONITOR

Color

Mfg. - AT&T
Mfg.# - 5160
14-1/4" x 10" x 11-1/2", 11 lbs
Color camera with 4" LCD monitor enclosed in a heavy duty steel case, putty in color. Additional camera can be monitored. Built in video switcher. LCD monitor has brightness and contrast adjustment. Originally intended as video terminal docking unit. New in factory boxes. Power supply included.

5160.....**$149.95**

$149.95

2.4 GHz WIRELESS VIDEO & AUDIO TRANSMITTER SYSTEM

700 ft

Transmits Video and Stereo Sound

Send video and audio signal up to 700 feet away. WIRELESS. FCC approved. System includes portable wireless CCD camera, wireless receiver, two AC adapters, RF cable, audio/video cable, A/B switch, mounting bracket and user's instruction has 4 channels and stereo sound.

WIRELESS RECEIVER:
7-1/4"(L) x 4-1/2"(W) x 2"(H), 15 oz
Output level - 1 volt p-p (video) 1 volt p-p (audio)

WIRELESS CCD CAMERA:
6-3/8"(L) x 2-3/4"(W) x 2-1/2"(H), 10 oz
1/3" CCD sensor. .1 Lux/F=1.8 minimum illumination. 78° wide angle lens. >380 lines of resolution. FM modulation for audio and video. 2.4 to 2.4835 GHz. Includes 12 VDC @ 500mA adapter or will run off of 8 "AA" batteries.

75-298.....**$324.95**

6.4" HIGH RESOLUTION COLOR LCD MONITOR

NEW

With Audio

Color

Mfg. - MARSHALL
Mfg.# - V-LCD6.4-BNC
8-5/8" x 5-5/8" x 2"
6.4" diagonal screen size. 960 x 234 pixel format (stripe configuration).
Broadcast quality in Color or B&W. Active matrix TFT technology allows wide viewing angle. Bright and vivid color picture with built-in backlight. On/off, tint, contrast, brightness, color and volume controls. Video input: BNC-F, Audio input RCA-F. 1/8" jack for headphone output. Requires 12 VDC @ 500 mA.

75-345.....**$799.95**
56-512.....Power supply for above.....**$18.95**

Index Page 5

BULLET *LASER* POINTER

1600ft range

1-3/4" x 7/16"dia, .8 oz
<5mW, 650nm, Class IIIA
3 (192) batteries included.
Solid brass construction with
copper color finish. Looks like
a 357 magnum caliper.

75-326..... **$8.49**

Order Form Page 164

45 AMP SOLID STATE RELAY

Ⓤ Ⓢ

Mfg. - OPTO 22
Mfg.# - 240D45
Control voltage: 3-32 VDC
Load: 45 amp @ 120-240 VAC
Zero voltage turn on
SPST, normally open

New

240D45..... **$14.95**

EXTERNAL REMOTE MOUNT SPEAKER

New

Mfg. - MOTOROLA
Mfg.# - HSN4024A
Original Motorola speaker made for MCS-2000 Mobile. 8 ohm, REN 8 watt audio power. 5-1/2" external remote mount speaker provides louder audio for in-vehicle listening. Adjustable angle-mounting bracket. Supplied with 8ft, 20 AWG 2 conductor cable and connector. Remove connector for use with any application requiring high quality speaker.

HSN4024A..... **$14.95**

Est. 1969

50 WATT DC to AC POWER INVERTER

New

Mfg. - CURTIS
3-3/4" x 2-7/8" x 1-1/2"
Input: 10-15 VDC, 5A max (lighter cord)
Any 12 VDC power source
Output: 115 VAC, 60 Hz, 50 watt, 1 outlet

PV50..... **$24.95**

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